



**HUWELL CHEMICALS S.P.A.**

Revision nr. 2

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**DECO A 3230**

## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking.

#### 1.1. Product identifier.

Code: 14317  
Product name: DECO A 3230

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended use: Bleaching powder for hair (for cosmetic use)

#### 1.3. Details of the supplier of the safety data sheet.

Name: HUWELL CHEMICALS S.P.A.  
Full address: Via Darwin 73/79  
District and Country: 20019 Settimo Milanese (MI)  
Italy  
Tel. +39 02 33501936  
Fax. +39 02 33576555

e-mail address of the competent person.  
responsible for the Safety Data Sheet.

lab1@huwell.it

#### 1.4. Emergency telephone number.

For urgent inquiries refer to.

Ospedale Niguarda Ca" Granda - Milano - 02/66101029  
Azienda Ospedaliera S.G.Battista - Molinette - Torino - 011/6637637  
Clinica Del Lavoro E Della Riabilitazione- Pavia - 0382/24444  
Università Degli Studi Di Padova - Padova - 049/8275078 04  
Istituto Scientifico G. Gaslini - Genova - 010/5636245  
Azienda Ospedaliera Careggi - Firenze - 055/4277238  
Policlinico A.Gemelli - Univ. Cattolica Del Sacro Cuore - Roma - 06/3054343  
Centro Antiveleni - Università La Sapienza - Roma - 06/49970698  
Centro Antiveleni Azienda Ospedaliera A. Cardarelli - Napoli - 081/7472870

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Oxidising solid, category 3	H272	May intensify fire; oxidiser.
Acute toxicity, category 4	H302	Harmful if swallowed.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.

**DECO A 3230**

Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

**2.2. Label elements.**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:            Danger

Hazard statements:

<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.

Precautionary statements:

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P220</b>	Keep / Store away from clothing / . . . / combustible materials.
<b>P264</b>	Wash . . . thoroughly after handling.
<b>P280</b>	Wear protective gloves / eye protection / face protection.
<b>P284</b>	[In case of inadequate ventilation] wear respiratory protection.
<b>P304+P340</b>	IF INHALED: remove person to fresh air and keep comfortable for breathing.
<b>P370+P378</b>	In case of fire: use . . . to extinguish.

**Contains:**            SODIUM SILICATE  
                              DISODIUM METASILICATE  
                              DIPOTASSIUM PEROXODISULPHATE  
                              AMMONIUM PEROXYDISULPHATE

**2.3. Other hazards.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**DECO A 3230****3.2. Mixtures.**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification.****Classification 1272/2008 (CLP).****DIPOTASSIUM PEROXODISULPHATE**

CAS. 7727-21-1

25 ≤ x &lt; 50

Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

EC. 231-781-8

INDEX. 016-061-00-1

Reg. no. 01-2119495676-19-0000

**AMMONIUM PEROXYDISULPHATE**

CAS. 7727-54-0

10 ≤ x &lt; 25

Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

EC. 231-786-5

INDEX. 016-060-00-6

Reg. no. 01-2119495973-19-0000

**SODIUM SILICATE**

CAS. 1344-09-8

10 ≤ x &lt; 25

Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335

EC. 215-687-4

INDEX. -

Reg. no. 01-2119448725-31-0011

**DISODIUM METASILICATE**

CAS. 6834-92-0

1 ≤ x &lt; 5

Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335

EC. 229-912-9

INDEX. 014-010-00-8

Reg. no. 01-2119449811-37-xxxx

**SECTION 4. First aid measures.****4.1. Description of first aid measures.**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**DECO A 3230****4.2. Most important symptoms and effects, both acute and delayed.**

Specific information on symptoms and effects caused by the product are unknown.  
For symptoms and effects caused by the contained substances, see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Information not available.

**SECTION 5. Firefighting measures.****5.1. Extinguishing media.****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**5.3. Advice for firefighters.****GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures.**

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**DECO A 3230****6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up.**

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage.****7.1. Precautions for safe handling.**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities.**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in cool (below 30 °C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic material as paper towel, wood, clothes, etc. which could induce spontaneous combustion. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

**7.3. Specific end use(s).**

Information not available.

**SECTION 8. Exposure controls/personal protection.****8.1. Control parameters.**

Regulatory References:

ESP      España      INSHT - Límites de exposición profesional para agentes químicos en España 2015



**DECO A 3230**

TLV-ACGIH

ACGIH 2016

**DIPOTASSIUM PEROXODISULPHATE**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation.	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin.	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d

**AMMONIUM PEROXYDISULPHATE**

**Threshold Limit Value.**

Type	Country	TWA/8h	ppm	STEL/15min	ppm
		mg/m3		mg/m3	
VLA	ESP	0,1			
TLV-ACGIH		0,1			

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation.	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin.	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d

**SODIUM SILICATE**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	7,5	mg/l
Normal value for marine water sediment	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	348	mg/l

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,80 mg/kg bw/d				
Inhalation.			VND	1,38 mg/m3			VND	5,61 mg/m3
Skin.			VND	0,8 mg/kg bw/d			VND	1,59 mg/kg bw/d

**DECO A 3230****DISODIUM METASILICATE****Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.				0,74 mg/kg bw/d				
Inhalation.				1,55 mg/m3		6,22		6,22 mg/m3
Skin.				0,74 mg/kg bw/d				1,49 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

**8.2. Exposure controls.**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

**SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

**RESPIRATORY PROTECTION**

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.

**ENVIRONMENTAL EXPOSURE CONTROLS.**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties.**

**DECO A 3230****9.1. Information on basic physical and chemical properties.**

Appearance	powder
Colour	blue
Odour	characteristic
Odour threshold.	Not available.
pH.	9,8-10,8
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	partially soluble
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

**9.2. Other information.****SECTION 10. Stability and reactivity.****10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

**DISODIUM METASILICATE**

The aqueous solutions act as: strong bases.

**10.2. Chemical stability.**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions.**



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The powders are potentially explosive when mixed with air.

DISODIUM METASILICATE

May react dangerously with: fluorine,lithium.

**10.4. Conditions to avoid.**

Avoid environmental dust build-up.

**10.5. Incompatible materials.**

DISODIUM METASILICATE

The aqueous solution is incompatible with: acids,organic anhydrides,acrilates,alcohols,aldehydes,alkyl oxides,cresoles,caprolactam,epichlorohydrin,ethylene dichloride,glycols,isocyanates,ketones,nitrates,phenoles,vinyl acetate.

**10.6. Hazardous decomposition products.**

Information not available.

**SECTION 11. Toxicological information.****11.1. Information on toxicological effects.**

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component).

LD50 (Oral) of the mixture:1061 mg/kg

LD50 (Dermal) of the mixture:Not classified (no significant component).

SODIUM SILICATE

LD50 (Oral).3400 (rat)

LD50 (Dermal).> 5000 mg/kg (rat)

LC50 (Inhalation).> 2,06 (rat)

DIPOTASSIUM PEROXODISULPHATE

LD50 (Oral).1130 mg/kg (ratto)

LD50 (Dermal).> 10000 mg/kg (coniglio)

LC50 (Inhalation).> 42,9 mg/l (ratto)

DISODIUM METASILICATE

LD50 (Oral).1152 (Ratto)

LD50 (Dermal).> 5000 (Ratto)

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LC50 (Inhalation).> 2,06 (Ratto)

**AMMONIUM PEROXYDISULPHATE**

LD50 (Oral).272 mg/kg Rat  
LD50 (Dermal).> 2000 mg/kg Rat  
LC50 (Inhalation).> 5,1 mg/l/4h Rat

**SKIN CORROSION / IRRITATION.**

Causes skin irritation.

**SERIOUS EYE DAMAGE / IRRITATION.**

Causes serious eye damage.

**RESPIRATORY OR SKIN SENSITISATION.**

Sensitising for the skin.

**GERM CELL MUTAGENICITY.**

Does not meet the classification criteria for this hazard class.

**CARCINOGENICITY.**

Does not meet the classification criteria for this hazard class.

**REPRODUCTIVE TOXICITY.**

Does not meet the classification criteria for this hazard class.

**STOT - SINGLE EXPOSURE.**

May cause respiratory irritation.

**STOT - REPEATED EXPOSURE.**

Does not meet the classification criteria for this hazard class.

**ASPIRATION HAZARD.**

Does not meet the classification criteria for this hazard class.

**SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity.****SODIUM SILICATE**

LC50 - for Fish. 1108 mg/l/96h (Brachydanio rerio)  
EC50 - for Crustacea. 1700 mg/l/48h (Daphnia magna)

**DIPOTASSIUM PEROXYDISULPHATE**

LC50 - for Fish. 107,6 mg/l/96h Scophthalmus maximus  
EC50 - for Crustacea. 120 mg/l/48h (daphnia)  
EC50 - for Algae / Aquatic Plants. 320 mg/l/72h Phaeodactylum

**DISODIUM METASILICATE**

LC50 - for Fish. 1108 mg/l/96h (Brachydanio rerio)  
EC50 - for Crustacea. 1700 mg/l/48h (Daphnia magna)  
EC50 - for Algae / Aquatic Plants. 207 mg/l/72h (Schedesmus subspicatus)

**AMMONIUM PEROXYDISULPHATE**

LC50 - for Fish. 107,6 mg/l/96h Scophthalmus maximus  
EC50 - for Crustacea. 120 mg/l/48h (Daphnia magna)  
EC50 - for Algae / Aquatic Plants. 320 mg/l/72h Phaeodactylum

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EC10 for Algae / Aquatic Plants.

36 mg/l/72h *Pseudomonas putida*

**12.2. Persistence and degradability.**

Dipotassium  
peroxodisulphate  
Rapidly biodegradable.

**DISODIUM METASILICATE**

Solubility in water.

210000 mg/l

Biodegradability: Information not available.

**AMMONIUM  
PEROXYDISULPHATE**

Solubility in water.

> 10000 mg/l

Biodegradability: Information not available.

**12.3. Bioaccumulative potential.**

Information not available.

**12.4. Mobility in soil.**

Information not available.

**12.5. Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects.**

Information not available.

**SECTION 13. Disposal considerations.****13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING



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Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information.**

**14.1. UN number.**

ADR / RID, IMDG, IATA: 1479

**14.2. UN proper shipping name.**

ADR / RID: OXIDIZING SOLID, N.O.S. MIXTURE  
IMDG: OXIDIZING SOLID, N.O.S. MIXTURE  
IATA: OXIDIZING SOLID, N.O.S. MIXTURE

**14.3. Transport hazard class(es).**

ADR / RID: Class: 5.1 Label: 5.1  
IMDG: Class: 5.1 Label: 5.1  
IATA: Class: 5.1 Label: 5.1



**14.4. Packing group.**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards.**

ADR / RID: NO  
IMDG: NO  
IATA: NO

**14.6. Special precautions for user.**

ADR / RID:	HIN - Kemler: 50	Limited Quantities: 5 kg	Tunnel restriction code: (E)
IMDG:	Special Provision: - EMS: F-A, S-Q	Limited Quantities: 5 kg	
IATA:	Cargo:	Maximum quantity: 100	Packaging instructions:



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Pass.:

Kg  
Maximum  
quantity: 25  
Kg  
A3

563  
Packaging  
instructions:  
559

Special Instructions:

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.**

Information not relevant.

**SECTION 15. Regulatory information.**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category - Directive 2012/18/EC: P8

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Contained substance.

Point.	65	AMMONIUM PEROXYDISULPHA TE Reg. no.: 01- 2119495973-19-0000
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Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**DECO A 3230****15.2. Chemical safety assessment.**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Sol. 3</b>	Oxidising solid, category 3
<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Resp. Sens. 1</b>	Respiratory sensitization, category 1
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>H272</b>	May intensify fire; oxidiser.
<b>H290</b>	May be corrosive to metals.
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006

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- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

07.



**HUWELL CHEMICALS S.P.A.**

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Dated 20/03/2017

Printed on 21/03/2017

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**DECO A 3230**

## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking.

#### 1.1. Product identifier.

Code: 14317  
Product name: DECO A 3230

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended use: Bleaching powder for hair (for cosmetic use)

#### 1.3. Details of the supplier of the safety data sheet.

Name: HUWELL CHEMICALS S.P.A.  
Full address: Via Darwin 73/79  
District and Country: 20019 Settimo Milanese (MI)  
Italy  
Tel. +39 02 33501936  
Fax. +39 02 33576555

e-mail address of the competent person.  
responsible for the Safety Data Sheet.

lab1@huwell.it

#### 1.4. Emergency telephone number.

For urgent inquiries refer to.

Ospedale Niguarda Ca" Granda - Milano - 02/66101029  
Azienda Ospedaliera S.G.Battista - Molinette - Torino - 011/6637637  
Clinica Del Lavoro E Della Riabilitazione- Pavia - 0382/24444  
Università Degli Studi Di Padova - Padova - 049/8275078 04  
Istituto Scientifico G. Gaslini - Genova - 010/5636245  
Azienda Ospedaliera Careggi - Firenze - 055/4277238  
Policlinico A.Gemelli - Univ. Cattolica Del Sacro Cuore - Roma - 06/3054343  
Centro Antiveleni - Università La Sapienza - Roma - 06/49970698  
Centro Antiveleni Azienda Ospedaliera A. Cardarelli - Napoli - 081/7472870

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Oxidising solid, category 3	H272	May intensify fire; oxidiser.
Acute toxicity, category 4	H302	Harmful if swallowed.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.



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Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

**2.2. Label elements.**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:            Danger

Hazard statements:

<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.

Precautionary statements:

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P220</b>	Keep / Store away from clothing / . . . / combustible materials.
<b>P264</b>	Wash . . . thoroughly after handling.
<b>P280</b>	Wear protective gloves / eye protection / face protection.
<b>P284</b>	[In case of inadequate ventilation] wear respiratory protection.
<b>P304+P340</b>	IF INHALED: remove person to fresh air and keep comfortable for breathing.
<b>P370+P378</b>	In case of fire: use . . . to extinguish.

**Contains:**            SODIUM SILICATE  
                              DISODIUM METASILICATE  
                              DIPOTASSIUM PEROXODISULPHATE  
                              AMMONIUM PEROXYDISULPHATE

**2.3. Other hazards.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.

**DECO A 3230****3.2. Mixtures.**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification.****Classification 1272/2008 (CLP).****DIPOTASSIUM PEROXODISULPHATE**

CAS. 7727-21-1

25 ≤ x &lt; 50

Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

EC. 231-781-8

INDEX. 016-061-00-1

Reg. no. 01-2119495676-19-0000

**AMMONIUM PEROXYDISULPHATE**

CAS. 7727-54-0

10 ≤ x &lt; 25

Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

EC. 231-786-5

INDEX. 016-060-00-6

Reg. no. 01-2119495973-19-0000

**SODIUM SILICATE**

CAS. 1344-09-8

10 ≤ x &lt; 25

Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335

EC. 215-687-4

INDEX. -

Reg. no. 01-2119448725-31-0011

**DISODIUM METASILICATE**

CAS. 6834-92-0

1 ≤ x &lt; 5

Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335

EC. 229-912-9

INDEX. 014-010-00-8

Reg. no. 01-2119449811-37-xxxx

**SECTION 4. First aid measures.****4.1. Description of first aid measures.**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**DECO A 3230****4.2. Most important symptoms and effects, both acute and delayed.**

Specific information on symptoms and effects caused by the product are unknown.  
For symptoms and effects caused by the contained substances, see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Information not available.

**SECTION 5. Firefighting measures.****5.1. Extinguishing media.****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**5.3. Advice for firefighters.****GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures.**

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**DECO A 3230****6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up.**

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage.****7.1. Precautions for safe handling.**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities.**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in cool (below 30 °C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic material as paper towel, wood, clothes, etc. which could induce spontaneous combustion. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

**7.3. Specific end use(s).**

Information not available.

**SECTION 8. Exposure controls/personal protection.****8.1. Control parameters.**

Regulatory References:

ESP      España      INSHT - Límites de exposición profesional para agentes químicos en España 2015



**DECO A 3230**

TLV-ACGIH

ACGIH 2016

**DIPOTASSIUM PEROXODISULPHATE**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation.	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin.	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d

**AMMONIUM PEROXYDISULPHATE**

**Threshold Limit Value.**

Type	Country	TWA/8h	ppm	STEL/15min	ppm
		mg/m3		mg/m3	
VLA	ESP	0,1			
TLV-ACGIH		0,1			

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation.	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin.	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d

**SODIUM SILICATE**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	7,5	mg/l
Normal value for marine water sediment	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	348	mg/l

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,80 mg/kg bw/d				
Inhalation.			VND	1,38 mg/m3			VND	5,61 mg/m3
Skin.			VND	0,8 mg/kg bw/d			VND	1,59 mg/kg bw/d

**DECO A 3230****DISODIUM METASILICATE****Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.				0,74 mg/kg bw/d				
Inhalation.				1,55 mg/m3		6,22		6,22 mg/m3
Skin.				0,74 mg/kg bw/d				1,49 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m3; PNOC inhalable fraction: 10 mg/m3). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

**8.2. Exposure controls.**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

**SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

**RESPIRATORY PROTECTION**

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.

**ENVIRONMENTAL EXPOSURE CONTROLS.**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties.**

**DECO A 3230****9.1. Information on basic physical and chemical properties.**

Appearance	powder
Colour	blue
Odour	characteristic
Odour threshold.	Not available.
pH.	9,8-10,8
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	partially soluble
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

**9.2. Other information.****SECTION 10. Stability and reactivity.****10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

**DISODIUM METASILICATE**

The aqueous solutions act as: strong bases.

**10.2. Chemical stability.**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions.**

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The powders are potentially explosive when mixed with air.

**DISODIUM METASILICATE**

May react dangerously with: fluorine,lithium.

**10.4. Conditions to avoid.**

Avoid environmental dust build-up.

**10.5. Incompatible materials.****DISODIUM METASILICATE**

The aqueous solution is incompatible with: acids,organic anhydrides,acrilates,alcohols,aldehydes,alkyl oxides,cresoles,caprolactam,epichlorohydrin,ethylene dichloride,glycols,isocyanates,ketones,nitrates,phenoles,vinyl acetate.

**10.6. Hazardous decomposition products.**

Information not available.

**SECTION 11. Toxicological information.****11.1. Information on toxicological effects.****ACUTE TOXICITY.**

LC50 (Inhalation - vapours) of the mixture:Not classified (no significant component).  
LC50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component).  
LD50 (Oral) of the mixture:1061 mg/kg  
LD50 (Dermal) of the mixture:Not classified (no significant component).

**SODIUM SILICATE**

LD50 (Oral).3400 (rat)  
LD50 (Dermal).> 5000 mg/kg (rat)  
LC50 (Inhalation).> 2,06 (rat)

**DIPOTASSIUM PEROXODISULPHATE**

LD50 (Oral).1130 mg/kg (ratto)  
LD50 (Dermal).> 10000 mg/kg (coniglio)  
LC50 (Inhalation).> 42,9 mg/l (ratto)

**DISODIUM METASILICATE**

LD50 (Oral).1152 (Ratto)  
LD50 (Dermal).> 5000 (Ratto)



**DECO A 3230**

LC50 (Inhalation).> 2,06 (Ratto)

**AMMONIUM PEROXYDISULPHATE**

LD50 (Oral).272 mg/kg Rat  
LD50 (Dermal).> 2000 mg/kg Rat  
LC50 (Inhalation).> 5,1 mg/l/4h Rat

**SKIN CORROSION / IRRITATION.**

Causes skin irritation.

**SERIOUS EYE DAMAGE / IRRITATION.**

Causes serious eye damage.

**RESPIRATORY OR SKIN SENSITISATION.**

Sensitising for the skin.

**GERM CELL MUTAGENICITY.**

Does not meet the classification criteria for this hazard class.

**CARCINOGENICITY.**

Does not meet the classification criteria for this hazard class.

**REPRODUCTIVE TOXICITY.**

Does not meet the classification criteria for this hazard class.

**STOT - SINGLE EXPOSURE.**

May cause respiratory irritation.

**STOT - REPEATED EXPOSURE.**

Does not meet the classification criteria for this hazard class.

**ASPIRATION HAZARD.**

Does not meet the classification criteria for this hazard class.

**SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity.****SODIUM SILICATE**

LC50 - for Fish. 1108 mg/l/96h (Brachydanio rerio)  
EC50 - for Crustacea. 1700 mg/l/48h (Daphnia magna)

**DIPOTASSIUM PEROXYDISULPHATE**

LC50 - for Fish. 107,6 mg/l/96h Scophthalmus maximus  
EC50 - for Crustacea. 120 mg/l/48h (daphnia)  
EC50 - for Algae / Aquatic Plants. 320 mg/l/72h Phaeodactylum

**DISODIUM METASILICATE**

LC50 - for Fish. 1108 mg/l/96h (Brachydanio rerio)  
EC50 - for Crustacea. 1700 mg/l/48h (Daphnia magna)  
EC50 - for Algae / Aquatic Plants. 207 mg/l/72h (Schedesmus subspicatus)

**AMMONIUM PEROXYDISULPHATE**

LC50 - for Fish. 107,6 mg/l/96h Scophthalmus maximus  
EC50 - for Crustacea. 120 mg/l/48h (Daphnia magna)  
EC50 - for Algae / Aquatic Plants. 320 mg/l/72h Phaeodactylum

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EC10 for Algae / Aquatic Plants.

36 mg/l/72h *Pseudomonas putida*

**12.2. Persistence and degradability.**

Dipotassium  
peroxodisulphate  
Rapidly biodegradable.

**DISODIUM METASILICATE**

Solubility in water.

210000 mg/l

Biodegradability: Information not available.

**AMMONIUM  
PEROXYDISULPHATE**

Solubility in water.

> 10000 mg/l

Biodegradability: Information not available.

**12.3. Bioaccumulative potential.**

Information not available.

**12.4. Mobility in soil.**

Information not available.

**12.5. Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects.**

Information not available.

**SECTION 13. Disposal considerations.****13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING



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Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information.**

**14.1. UN number.**

ADR / RID, IMDG, IATA: 1479

**14.2. UN proper shipping name.**

ADR / RID: OXIDIZING SOLID, N.O.S. MIXTURE  
IMDG: OXIDIZING SOLID, N.O.S. MIXTURE  
IATA: OXIDIZING SOLID, N.O.S. MIXTURE

**14.3. Transport hazard class(es).**

ADR / RID: Class: 5.1 Label: 5.1  
IMDG: Class: 5.1 Label: 5.1  
IATA: Class: 5.1 Label: 5.1



**14.4. Packing group.**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards.**

ADR / RID: NO  
IMDG: NO  
IATA: NO

**14.6. Special precautions for user.**

ADR / RID:	HIN - Kemler: 50	Limited Quantities: 5 kg	Tunnel restriction code: (E)
IMDG:	Special Provision: - EMS: F-A, S-Q	Limited Quantities: 5 kg	
IATA:	Cargo:	Maximum quantity: 100	Packaging instructions:



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Pass.:

Kg  
Maximum  
quantity: 25  
Kg  
A3

563  
Packaging  
instructions:  
559

Special Instructions:

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.**

Information not relevant.

**SECTION 15. Regulatory information.**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category - Directive 2012/18/EC: P8

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Contained substance.

Point.	65	AMMONIUM PEROXYDISULPHA TE Reg. no.: 01- 2119495973-19-0000
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Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**DECO A 3230****15.2. Chemical safety assessment.**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Sol. 3</b>	Oxidising solid, category 3
<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Resp. Sens. 1</b>	Respiratory sensitization, category 1
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>H272</b>	May intensify fire; oxidiser.
<b>H290</b>	May be corrosive to metals.
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006

**DECO A 3230**

- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

07.



**HUWELL CHEMICALS S.P.A.**

Revision nr. 2

Dated 20/03/2017

Printed on 21/03/2017

Page n. 1/15

**DECO A 3230**

## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking.

#### 1.1. Product identifier.

Code: 14317  
Product name: DECO A 3230

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against.

Intended use: Bleaching powder for hair (for cosmetic use)

#### 1.3. Details of the supplier of the safety data sheet.

Name: HUWELL CHEMICALS S.P.A.  
Full address: Via Darwin 73/79  
District and Country: 20019 Settimo Milanese (MI)  
Italy  
Tel. +39 02 33501936  
Fax. +39 02 33576555

e-mail address of the competent person.  
responsible for the Safety Data Sheet.

lab1@huwell.it

#### 1.4. Emergency telephone number.

For urgent inquiries refer to.

Ospedale Niguarda Ca" Granda - Milano - 02/66101029  
Azienda Ospedaliera S.G.Battista - Molinette - Torino - 011/6637637  
Clinica Del Lavoro E Della Riabilitazione- Pavia - 0382/24444  
Università Degli Studi Di Padova - Padova - 049/8275078 04  
Istituto Scientifico G. Gaslini - Genova - 010/5636245  
Azienda Ospedaliera Careggi - Firenze - 055/4277238  
Policlinico A.Gemelli - Univ. Cattolica Del Sacro Cuore - Roma - 06/3054343  
Centro Antiveleni - Università La Sapienza - Roma - 06/49970698  
Centro Antiveleni Azienda Ospedaliera A. Cardarelli - Napoli - 081/7472870

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Oxidising solid, category 3	H272	May intensify fire; oxidiser.
Acute toxicity, category 4	H302	Harmful if swallowed.
Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific target organ toxicity - single exposure, category 3	H335	May cause respiratory irritation.

**DECO A 3230**

Respiratory sensitization, category 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitization, category 1	H317	May cause an allergic skin reaction.

**2.2. Label elements.**

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:            Danger

Hazard statements:

<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.

Precautionary statements:

<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
<b>P220</b>	Keep / Store away from clothing / . . . / combustible materials.
<b>P264</b>	Wash . . . thoroughly after handling.
<b>P280</b>	Wear protective gloves / eye protection / face protection.
<b>P284</b>	[In case of inadequate ventilation] wear respiratory protection.
<b>P304+P340</b>	IF INHALED: remove person to fresh air and keep comfortable for breathing.
<b>P370+P378</b>	In case of fire: use . . . to extinguish.

**Contains:**            SODIUM SILICATE  
                              DISODIUM METASILICATE  
                              DIPOTASSIUM PEROXODISULPHATE  
                              AMMONIUM PEROXYDISULPHATE

**2.3. Other hazards.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients.****3.1. Substances.**

Information not relevant.



**DECO A 3230****3.2. Mixtures.**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification.****Classification 1272/2008 (CLP).****DIPOTASSIUM PEROXODISULPHATE**

CAS. 7727-21-1

25 ≤ x &lt; 50

Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

EC. 231-781-8

INDEX. 016-061-00-1

Reg. no. 01-2119495676-19-0000

**AMMONIUM PEROXYDISULPHATE**

CAS. 7727-54-0

10 ≤ x &lt; 25

Ox. Sol. 3 H272, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Skin Sens. 1 H317

EC. 231-786-5

INDEX. 016-060-00-6

Reg. no. 01-2119495973-19-0000

**SODIUM SILICATE**

CAS. 1344-09-8

10 ≤ x &lt; 25

Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335

EC. 215-687-4

INDEX. -

Reg. no. 01-2119448725-31-0011

**DISODIUM METASILICATE**

CAS. 6834-92-0

1 ≤ x &lt; 5

Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335

EC. 229-912-9

INDEX. 014-010-00-8

Reg. no. 01-2119449811-37-xxxx

**SECTION 4. First aid measures.****4.1. Description of first aid measures.**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**DECO A 3230****4.2. Most important symptoms and effects, both acute and delayed.**

Specific information on symptoms and effects caused by the product are unknown.  
For symptoms and effects caused by the contained substances, see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Information not available.

**SECTION 5. Firefighting measures.****5.1. Extinguishing media.****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture.****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**5.3. Advice for firefighters.****GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures.**

If there are no contraindications, spray powder with water to prevent the formation of dust.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**DECO A 3230****6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up.**

Collect the leaked product and place it in containers for recovery or disposal. If the product is flammable, use explosion-proof equipment. If there are no contraindications, use jets of water to eliminate product residues. Make sure the leakage site is well aired. Evaluate the compatibility of the container to be used, by checking section 10. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage.****7.1. Precautions for safe handling.**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities.**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in cool (below 30 °C) and dry areas. Avoid contamination and avoid the presence of reducing agents like lotions and permanent waves. Discard any unused mixture with developer or bleaching lotions, since the container may break. AVOID humid organic material as paper towel, wood, clothes, etc. which could induce spontaneous combustion. Protect from heat and sunlight; store in places far from rain and humidity; never store outdoors. Store separately from other dangerous and incompatible substances.

**7.3. Specific end use(s).**

Information not available.

**SECTION 8. Exposure controls/personal protection.****8.1. Control parameters.**

Regulatory References:

ESP      España      INSHT - Límites de exposición profesional para agentes químicos en España 2015



**DECO A 3230**

TLV-ACGIH

ACGIH 2016

**DIPOTASSIUM PEROXODISULPHATE**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation.	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin.	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d

**AMMONIUM PEROXYDISULPHATE**

**Threshold Limit Value.**

Type	Country	TWA/8h	ppm	STEL/15min	ppm
		mg/m3		mg/m3	
VLA	ESP	0,1			
TLV-ACGIH		0,1			

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0763	mg/l
Normal value in marine water	0,011	mg/l
Normal value for fresh water sediment	0,275	mg/kg
Normal value for marine water sediment	0,0396	mg/kg
Normal value for water, intermittent release	0,763	mg/l
Normal value of STP microorganisms	3,6	mg/l
Normal value for the terrestrial compartment	0,015	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.		30 mg/kg bw/d		9,1 mg/kg bw/d				
Inhalation.	295 mg/m3	295 mg/m3	1,03 mg/m3	1,03 mg/m3		590 mg/m3	2,06 mg/m3	2,06 mg/m3
Skin.	1,124 mg/cm2	200 mg/kg bw/d	0,051 mg/cm2	9,1 mg/kg bw/d	2,248 mg/cm2	400 mg/kg bw/d	0,102 mg/cm2	18,2 mg/kg bw/d

**SODIUM SILICATE**

Predicted no-effect concentration - PNEC.

Normal value in fresh water	7,5	mg/l
Normal value for marine water sediment	1	mg/l
Normal value for water, intermittent release	7,5	mg/l
Normal value of STP microorganisms	348	mg/l

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	0,80 mg/kg bw/d				
Inhalation.			VND	1,38 mg/m3			VND	5,61 mg/m3
Skin.			VND	0,8 mg/kg bw/d			VND	1,59 mg/kg bw/d

**DECO A 3230****DISODIUM METASILICATE****Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.				0,74 mg/kg bw/d				
Inhalation.				1,55 mg/m3		6,22		6,22 mg/m3
Skin.				0,74 mg/kg bw/d				1,49 mg/kg bw/d

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

During the risk assessment process, it is essential to take into consideration the ACGIH occupational exposure levels for inert particulate not otherwise classified (PNOC respirable fraction: 3 mg/m<sup>3</sup>; PNOC inhalable fraction: 10 mg/m<sup>3</sup>). For values above these limits, use a P type filter, whose class (1, 2 or 3) must be chosen according to the outcome of risk assessment.

**8.2. Exposure controls.**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

In the case of prolonged contact with the product, protect the hands with penetration-resistant work gloves (see standard EN 374). Work glove material must be chosen according to the use process and the products that may form. Latex gloves may cause sensitivity reactions.

**SKIN PROTECTION**

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

In the presence of risks of exposure to splashes or squirts during work, adequate mouth, nose and eye protection should be used to prevent accidental absorption.

**RESPIRATORY PROTECTION**

Use a type P filtering facemask (see standard EN 149) or equivalent device, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment.

**ENVIRONMENTAL EXPOSURE CONTROLS.**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties.**

**DECO A 3230****9.1. Information on basic physical and chemical properties.**

Appearance	powder
Colour	blue
Odour	characteristic
Odour threshold.	Not available.
pH.	9,8-10,8
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	Not available.
Solubility	partially soluble
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidising properties	Not available.

**9.2. Other information.****SECTION 10. Stability and reactivity.****10.1. Reactivity.**

There are no particular risks of reaction with other substances in normal conditions of use.

**DISODIUM METASILICATE**

The aqueous solutions act as: strong bases.

**10.2. Chemical stability.**

The product is stable in normal conditions of use and storage.

**10.3. Possibility of hazardous reactions.**

**DECO A 3230**

The powders are potentially explosive when mixed with air.

DISODIUM METASILICATE

May react dangerously with: fluorine,lithium.

**10.4. Conditions to avoid.**

Avoid environmental dust build-up.

**10.5. Incompatible materials.**

DISODIUM METASILICATE

The aqueous solution is incompatible with: acids,organic anhydrides,acrilates,alcohols,aldehydes,alkyl oxides,cresoles,caprolactam,epichlorohydrin,ethylene dichloride,glycols,isocyanates,ketones,nitrates,phenoles,vinyl acetate.

**10.6. Hazardous decomposition products.**

Information not available.

**SECTION 11. Toxicological information.****11.1. Information on toxicological effects.**

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture:Not classified (no significant component).

LD50 (Oral) of the mixture:1061 mg/kg

LD50 (Dermal) of the mixture:Not classified (no significant component).

SODIUM SILICATE

LD50 (Oral).3400 (rat)

LD50 (Dermal).> 5000 mg/kg (rat)

LC50 (Inhalation).> 2,06 (rat)

DIPOTASSIUM PEROXODISULPHATE

LD50 (Oral).1130 mg/kg (ratto)

LD50 (Dermal).> 10000 mg/kg (coniglio)

LC50 (Inhalation).> 42,9 mg/l (ratto)

DISODIUM METASILICATE

LD50 (Oral).1152 (Ratto)

LD50 (Dermal).> 5000 (Ratto)

**DECO A 3230**

LC50 (Inhalation).> 2,06 (Ratto)

**AMMONIUM PEROXYDISULPHATE**

LD50 (Oral).272 mg/kg Rat  
LD50 (Dermal).> 2000 mg/kg Rat  
LC50 (Inhalation).> 5,1 mg/l/4h Rat

**SKIN CORROSION / IRRITATION.**

Causes skin irritation.

**SERIOUS EYE DAMAGE / IRRITATION.**

Causes serious eye damage.

**RESPIRATORY OR SKIN SENSITISATION.**

Sensitising for the skin.

**GERM CELL MUTAGENICITY.**

Does not meet the classification criteria for this hazard class.

**CARCINOGENICITY.**

Does not meet the classification criteria for this hazard class.

**REPRODUCTIVE TOXICITY.**

Does not meet the classification criteria for this hazard class.

**STOT - SINGLE EXPOSURE.**

May cause respiratory irritation.

**STOT - REPEATED EXPOSURE.**

Does not meet the classification criteria for this hazard class.

**ASPIRATION HAZARD.**

Does not meet the classification criteria for this hazard class.

**SECTION 12. Ecological information.**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity.****SODIUM SILICATE**

LC50 - for Fish. 1108 mg/l/96h (Brachydanio rerio)  
EC50 - for Crustacea. 1700 mg/l/48h (Daphnia magna)

**DIPOTASSIUM PEROXYDISULPHATE**

LC50 - for Fish. 107,6 mg/l/96h Scophthalmus maximus  
EC50 - for Crustacea. 120 mg/l/48h (daphnia)  
EC50 - for Algae / Aquatic Plants. 320 mg/l/72h Phaeodactylum

**DISODIUM METASILICATE**

LC50 - for Fish. 1108 mg/l/96h (Brachydanio rerio)  
EC50 - for Crustacea. 1700 mg/l/48h (Daphnia magna)  
EC50 - for Algae / Aquatic Plants. 207 mg/l/72h (Schedesmus subspicatus)

**AMMONIUM PEROXYDISULPHATE**

LC50 - for Fish. 107,6 mg/l/96h Scophthalmus maximus  
EC50 - for Crustacea. 120 mg/l/48h (Daphnia magna)  
EC50 - for Algae / Aquatic Plants. 320 mg/l/72h Phaeodactylum



**DECO A 3230**

EC10 for Algae / Aquatic  
Plants.

36 mg/l/72h *Pseudomonas putida*

**12.2. Persistence and degradability.**

Dipotassium  
peroxodisulphate  
Rapidly biodegradable.

**DISODIUM METASILICATE**

Solubility in water.

210000 mg/l

Biodegradability: Information not available.

**AMMONIUM  
PEROXYDISULPHATE**

Solubility in water.

> 10000 mg/l

Biodegradability: Information not available.

**12.3. Bioaccumulative potential.**

Information not available.

**12.4. Mobility in soil.**

Information not available.

**12.5. Results of PBT and vPvB assessment.**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects.**

Information not available.

**SECTION 13. Disposal considerations.****13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING



DECO A 3230

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information.**

**14.1. UN number.**

ADR / RID, IMDG, IATA: 1479

**14.2. UN proper shipping name.**

ADR / RID: OXIDIZING  
SOLID, N.O.S.  
MIXTURE  
IMDG: OXIDIZING  
SOLID, N.O.S.  
MIXTURE  
IATA: OXIDIZING  
SOLID, N.O.S.  
MIXTURE

**14.3. Transport hazard class(es).**

ADR / RID: Class: 5.1 Label: 5.1  
IMDG: Class: 5.1 Label: 5.1  
IATA: Class: 5.1 Label: 5.1



**14.4. Packing group.**

ADR / RID, IMDG, IATA: III

**14.5. Environmental hazards.**

ADR / RID: NO  
IMDG: NO  
IATA: NO

**14.6. Special precautions for user.**

ADR / RID:	HIN - Kemler: 50	Limited Quantities: 5 kg	Tunnel restriction code: (E)
IMDG:	Special Provision: - EMS: F-A, S-Q	Limited Quantities: 5 kg	
IATA:	Cargo:	Maximum quantity: 100	Packaging instructions:



**HUWELL CHEMICALS S.P.A.**

Revision nr. 2

Dated 20/03/2017

Printed on 21/03/2017

Page n. 13/15

**DECO A 3230**

Pass.:

Kg  
Maximum  
quantity: 25  
Kg  
A3

563  
Packaging  
instructions:  
559

Special Instructions:

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.**

Information not relevant.

**SECTION 15. Regulatory information.**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category - Directive 2012/18/EC: P8

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

Contained substance.

Point.	65	AMMONIUM PEROXYDISULPHA TE Reg. no.: 01- 2119495973-19-0000
--------	----	--

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**DECO A 3230****15.2. Chemical safety assessment.**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information.**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Sol. 3</b>	Oxidising solid, category 3
<b>Met. Corr. 1</b>	Substance or mixture corrosive to metals, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Resp. Sens. 1</b>	Respiratory sensitization, category 1
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>H272</b>	May intensify fire; oxidiser.
<b>H290</b>	May be corrosive to metals.
<b>H302</b>	Harmful if swallowed.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H334</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
<b>H317</b>	May cause an allergic skin reaction.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006

**DECO A 3230**

- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

07.

**Cosmetic product data sheet for professional use**

***MASK***

**Edition date:** 01<sup>st</sup> January 2012

**Revision date:** -----

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

**Product name:** Colour Boost Masques 200 ml

**Classification:** Mask

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS :

### Product description

emulsions with fatty alcohols based on variable viscosity , containing surface active cationic agents.

## 3. HAZARDS IDENTIFICATION

### Information concerning:

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product.

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear disposable gloves.



## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** liquid, cream  
**Odor:** characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** no reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see  
The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems(Title II D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATION ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

### **Information concerning**

**Sanitary warning :** Do no use on irritated scalp or affected by pathologies.  
As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary sensitivity test.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Do not mix with other product not foreseen;
- Never place spilled product into the original cans to be used;
- Keep away from children

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

## Cosmetic product data sheet for professional use

***MASK***

**Edition date:** 05/06/2018

**Revision date:** -----

### 1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION AND THE COMPANY

#### GENERAL INFORMATION :

**Product name:**

Ultimate Repair Conditioner 60 ml  
Ultimate Repair Conditioner 245 ml  
Ultimate Repair Conditioner 750 ml  
Ultimate Repair Conditioner 2l  
Repair Treatment Masque 60 ml  
Repair Treatment Masque 200ml  
Repair Treatment Masque 750ml  
Weightless Volume Conditioner 60ml  
Weightless Volume Conditioner 245ml  
Weightless Volume Conditioner 750ml  
Weightless Volume Conditioner 2 l  
Intense Hydrate Conditioner 60ml  
Intense Hydrate Conditioner 245 ml  
Intense Hydrate Conditione 750ml  
Intense Hydrate Conditioner 2 l  
Intense Hydrate Masque 60 ml  
Intense Hydrate Masque 200ml  
Intense Hydrate Masque 750ml  
Illuminate Colour Conditioner 60 ml  
Illuminate Colour Conditioner 245 ml  
Illuminate Colour Conditioner 750ml  
illuminate Color Conditioner 2lt.  
Illuminate Colour Masque 60 ml

Illuminate Colour Masque 200ml  
Illuminate Colour Masque 750ml  
LEAVE IN TREATMENT 125ml

**Classification:** balsam

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**

## **2. COMPOSITION / INFORMATION ON INGREDIENTS :**

**Product description** emulsions with fatty alcohols based on variable viscosity , containing surface active cationic agents.

### 3. HAZARDS IDENTIFICATION

**Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY** : Not inflammable product.

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear disposable gloves.

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :**

liquid, cream

**Odor:**

characteristic

## 10. STABILITY AND REACTIVITY

**Stability :**

stable under normal pressure and temperature

**Reactivity :**

no reaction with the other compound ingredients



## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see  
The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems(Title II D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATION ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

### **Information concerning**

**Sanitary warning :** Do no use on irritated scalp or affected by pathologies.  
As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary sensitivity test.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Do not mix with other product not foreseen;
- Never place spilled product into the original cans to be used;
- Keep away from children

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Product Name</b>	REF Curl Power 125ml
<b>Supplier</b>	Artec Chemical Co., Ltd. Room 1101, ONE MIDTOWN, 11 Hoi Shing Road, Tsuen Wan, N.T., Hong Kong
<b>Emergency Phone No.</b>	+852-2543-2233
<b>Fax No.</b>	+852-2543-1883

---

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

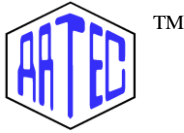
Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard**                      None



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

**Description** Mixture of substances listed below with nonhazardous additions

#### Components

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

Sodium N-(hydroxymethyl)glycinate

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
70161-44-3	274-357-8		Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

---

### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special Hazards arising from the Substances or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.

---

### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Spills must not be flushed direct to sewer except with the express permission of local regulatory authorities.

#### Environmental Precautions

Prevent from entry into open streams or sewers.

---

### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special restrictions on storage with other products.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight and freezing. Store preferably between 5 °C and 25 °C.

---

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

### Personal Protection Equipment

Eye Protection Not required under normal conditions of use. However, avoid eye contact.

Industrial application Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin Protection Not required under normal conditions of use.

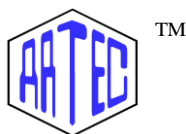
Industrial application Suitable impervious protective clothing. Final choice is dependent on individual circumstances.

Hand Protection Not required under normal conditions of use.

Industrial application Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respirators Not required under normal conditions of use.

Industrial application A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	white cream
<b>Odour</b>	Fragranced; pleasant
<b>Freezing/Melting Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	> 100 °C

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Reactivity

No information available

#### Conditions to Avoid

High temperature;

#### Materials to Avoid

Product reacts with: Strong acids; Strong alkalis; Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50	> 2,000 mg/kg
	(calculated value)	

This product possesses no known toxicological hazards when used as directed and all precautions followed.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### Primary Irritating Potential

Skin corrosion/irritation

Not irritating to skin.

Prolonged contact may cause mild irritation to individuals with very sensitive skin.

Serious eye damage/irritation

Corrosive or irritation effects are unlikely;

None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.

Respiratory or skin sensitization

Skin sensitization is considered to be unlikely.

### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Mutagenicity**

No experimental evidence of mutagenicity available.

**Carcinogenicity**

No experimental evidence of carcinogenicity available.

**Teratogenicity**

No experimental evidence of teratogenicity available.

**Reproductive Toxicity**

No experimental evidence of reproductive toxicity available.

---

## 12 ECOLOGICAL INFORMATION

### Ecotoxicity

Quantitative data on the ecological effect of this product are not available.

### Persistence and Degradability

No information available

### Bioaccumulative Potential

No information available

### Mobility in Soil

No information available

### Result of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Additional Ecological Information

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 13 DISPOSAL CONSIDERATIONS

#### Disposal Consideration

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### 14 TRANSPORT REGULATIONS

UN Number                      Not assigned  
Packing Group                 None

Declaration    ADR, RID        No restrictions on land shipment  
(railroad and road)        Not classified as dangerous in the meaning of transport regulations.

Declaration    IMDG-Code        No restrictions on sea shipment  
(transport by sea)        Not classified as dangerous in the meaning of transport regulations.

Declaration    IATA-DGR        No restrictions on air shipment according to  
(transport by air)        IATA Dangerous Goods Regulation (DGR) 58th Edition 2017  
Not classified as dangerous in the meaning of transport regulations.

### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances  
Legislation                      Directive 96/82/EC does not apply

Storage class VCI              10 - 13

#### Chemical safety assessment

For this product chemical safety assessment not carried out.

### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.

Cosmetic product data sheet for professional use

**HAIR PERMS AND STRAIGHTENING TREATMENTS**

Edition date : 01<sup>st</sup> January 2012

Revision date : -----

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

Product name : .....

Classification : solution

Company Identification : **Pool Service S.r.l.**  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

For further information about this product please call : +39.331.311399

## 2. COMPOSITION /INFORMATION ON INGREDIENTS :

**Description :** water solution gel/salt cream or esters of tioglicolic acid or other reducing substances in presence of basic agents (ammonia ) used to obtain the final PH.

## 3. HAZARDS IDENTIFICATION :

**Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

**In case of eye contact:**

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

**In case of skin contact:**

- Wash immediately with plenty of water. If irritation persists seek medical attention.

**In case of ingestion :**

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

**In case of inhalation:**

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product .

## 6. ACCIDENTAL RELEASE MEASURES

**In case of spilled :**

- Remove all sources of ignition or heat, stop any loss of material, provide ventilation.  
Place spilled material into appropriate waste containers and wash off with plenty of water .  
In case of massive spreading of product alert the Fire Brigade.

**Personal Precautions :**

- Use appropriate protective gloves and masks.

## 7. HANDLING AND STORAGE

**Handling :**

- See item 3

**Optimal storage conditions:**

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

**Safe handling advice :**

- Keep away from strong reducing substances as perms and straightening treatments..

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing and gloves
- Avoid nickel or ferrous tools
- Avoid to wear trinkets
  
- **Respiratory protection** : suitable mask
- **Hand protection** : disposable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** liquid, gel, cream  
**Odor:** characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATIONS ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

The information here reported refer to the obtained mixture with : oxidation hair dye, tone on tone colouring cream, bleaching powder.

### **Sanitary warning:**

Do not use on the scalp if broken, irritated or affected by pathologies, as the product may cause allergic reactions in very sensitive persons.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the annexed sheet,;
- Rinse one's hair well after application;
- Stop immediately any colour excess with an absorbent towel or a cotton wet flock to avoid any colour drips;
- Do not use on hair previously treated with metallic dyes;
- Follow the recommended sitting time;
- Keep away from children ;

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**Cosmetic product data sheet for professional use**

***REF DIRECT COLOUR***

**Edition date :** 12/06/2018

**Revision date :** -----

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
AND THE COMPANY**

**Commercial name :** REF DIRECT COLOUR

**Classification :** emulsion

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**



## 2. COMPOSITION /INFORMATION ON INGREDIENTS :

### Product description:

hydrogen peroxide solutions or other oxidizing substances appropriately in solid or liquid form appropriately stabilized.

## 3. HAZARDS IDENTIFICATION :

### Information concerning:

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Inflammable product.

**Suitable extinguishing Media:**

- Use powder or carbon dioxide ( CO<sub>2</sub> ) for small fire and nebulised water or foam for big fire.
- Cool the cases with water.

**Special protective equipment for fire-fighters:**

Self –contained breathing apparatus and full protective gear recommended

## 6. ACCIDENTAL RELEASE MEASURES

**In case of spilled :**

- Remove all sources of ignition or heat, stop any loss of material, provide ventilation.  
Place spilled material into appropriate waste containers and wash off with plenty of water .  
In case of massive spreading of product alert the Fire Brigade.

**Personal Precautions :**

- Use appropriate suitable gloves and masks.

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

- Keep away from strong reducing substances as perms and straightenings.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing and gloves
- Avoid nickel tools
- Avoid to wear trinkets
- **Respiratory protection** : suitable mask
- **Hand protection** : disposable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :**

liquid, cream, solid.

**Odor:**

characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

Road transport ADR/RID:

Class: 5.1

Packing group: III

Nr. ONU 2984

Designation of goods: hydrogen peroxide, aqueous solution

Classification code: 01

Maritime transport IMO:

Class: 5.1

Nr. ONU 2984 LIMITED QUANTITY

Packing group: III

Designation of goods: hydrogen peroxide, aqueous solution

Marine pollutant: No

EmS F-H, S-Q

Air transport ICAO/IATA:

Class: 5.1

N° ONU 2984

Packing group: III

Designation of goods: hydrogen peroxide, aqueous solution

ERG Code: 5L

## **15. INFORMATION ON CURRENT REGULATIONS**

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

The information here reported refer to the obtained mixture with : oxidation hair dye, tone on tone colouring cream, bleaching powder.

### **Sanitary warning:**

Do not use on the scalp if broken, irritated or affected by pathologies;

As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary test as follows: clean a small area behind the ear, apply a small quantity of product for 2 or 3 times and let it dry. Wait 48 hours without washing . If local reddening , swelling or itching appears in the meantime, do not use the product.

It's up to the user decide if carry out a preliminary test or not.

Attention: the final product may generate hydrogen peroxide.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Do not use to dye eyelashes and eyebrows;
- Do not make a perm immediately after or before a dye;
- Rinse one's hair well after application;
- Do not use on hair previously treated with metallic dyes;
- Follow the recommended sitting time;
- Rinse immediately any rest of colouring mixture from skin or clothes ;
- Use the colouring mixture as soon as ready;
- Throw any unused colouring mixture;
- Do not leave the colouring mixture in a hermetically sealed container as it might swell and explode;
- Keep away from children ;

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name REF DRY SHAMPOO BROWN  
Product number 33053

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

National emergency telephone number 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram**

Signal word Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated



**Precautionary statements**

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** REF DRY SHAMPOO  
**Product number** 33014

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

**National emergency telephone number** 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram**

**Signal word** Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

---

**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.



---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF EXTREME HOLD HAIR SPRAY**Product number** 33070**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

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**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -



## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

---

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF FIBER MOUSSE**Product number** 33069**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.



## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF HAIRSPRAY**Product number** 33060**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

---

**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.



## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF FLEXIBLE HAIR SPRAY**Product number** 33057**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

---

**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.



**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

---

**SECTION 16: Other information**

---

**General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**Cosmetic product data sheet for professional use**

***REF Fluid Regulator***

**Edition date:** 11/6/18

**Revision date:**

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

**Product name:** REF FLUID REGULATOR

**Classification:** lotions

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS :

**Product description**

water solution with active substances

## 3. HAZARDS IDENTIFICATION

**Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

**In case of eye contact:**

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

**In case of skin contact:**

- Wash immediately with plenty of water. If irritation persists seek medical attention.

**In case of ingestion :**

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Centre

**In case of inhalation:**

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY** : non inflammable.

## 6. ACCIDENTAL RELEASE MEASURES

**In case of spilled :**

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

**Personal Precautions :**

- Wear disposable gloves.

## 7. HANDLING AND STORAGE

**Handling :**

- See item 3

**Optimal storage conditions:**

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

**Safe handling advice :**

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 D.Lgs. 81/08):

- Wear suitable clean clothing and clean working tools.
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** liquid  
**Odor:** characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** no reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

### **13. DISPOSAL CONSIDERATION**

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

### **14. TRANSPORT INFORMATION**

NONE

### **15. INFORMATION ON CURRENT REGULATIONS**

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

### **Information concerning**

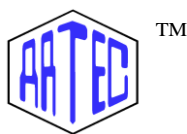
**Sanitary warning :** Do not use on sores, irritated or injured scalp.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Do not mix with other products or similar products not foreseen in the instructions;
- Use and keep away from sources of ignition or heat ;
- Never place spilled product into the original cans to be reused;
- Keep away from children

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** REF Forming Cream 85ml

**Supplier** Artec Chemical Co., Ltd.  
Room 1101, ONE MIDTOWN, 11 Hoi Shing Road,  
Tsuen Wan, N.T., Hong Kong

**Emergency Phone No.** +852-2543-2233  
**Fax No.** +852-2543-1883

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard** None

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

**Description** Mixture of substances listed below with nonhazardous additions

#### Ingredients

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
6440-58-0	229-222-8	-	Acute Tox. 4;	H302	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of soap and water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Special Hazard arising from the Substance or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Extinguishing Media

Suitable Extinguishing Media

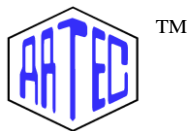
Alcohol-resistant foam; Dry powder; Carbon dioxide; Sand or earth; Water spray

Unsuitable Extinguishing Media

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### Environmental Precautions

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank.

---

### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.

#### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special precautions required.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight. Store preferably between 5 °C and 25 °C.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

#### General Protective and Hygiene Measures

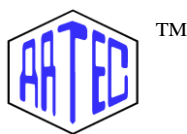
Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

#### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	white solid
Odour	Fragranced; characteristic
Freezing/Melting Point	No data available
Boiling Point	No data available
Flash Point	Not applicable



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Conditions to Avoid

Extremes of temperature; Direct sunlight;

#### Materials to Avoid

Product reacts with: Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50 (calculated value)	> 2,000 mg/kg
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This product possesses no known toxicological hazards when used as directed and all precautions followed.

#### Primary Irritating Potential

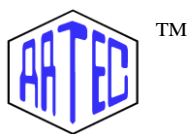
Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	No experimental evidence of sensitizing potential available.

#### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

---

### 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Quantitative data on the ecological effect of this product are not available.

#### **Persistence and Degradability**

No information available

#### **Bioaccumulative Potential**

No information available

#### **Mobility in Soil**

No information available

#### **Result of PBT and vPvB Assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### **Additional Ecological Information**

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.

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### 13 DISPOSAL CONSIDERATIONS

#### **Disposal Consideration**

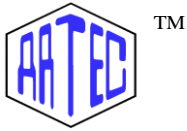
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

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### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None

Declaration (railroad and road)	ADR, RID	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration (transport by sea)	IMDG-Code	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration (transport by air)	IATA-DGR	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

Chemical safety assessment

For this product chemical safety assessment not carried out.

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### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Product Name</b>	<b>REF.241 Get it Straight</b>
<b>Supplier</b>	Artec Chemical Co., Ltd. Room 1101, ONE MIDTOWN, 11 Hoi Shing Road, Tsuen Wan, N.T., Hong Kong
<b>Emergency Phone No.</b>	+852-2543-2233
<b>Fax No.</b>	+852-2543-1883

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### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

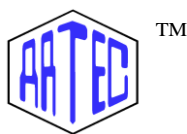
Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard**                      None



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

**Description** Mixture of substances listed below with nonhazardous additions

#### Components

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

Sodium N-(hydroxymethyl)glycinate

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
70161-44-3	274-357-8		Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special Hazards arising from the Substances or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Spills must not be flushed direct to sewer except with the express permission of local regulatory authorities.

#### Environmental Precautions

Prevent from entry into open streams or sewers.

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### 7 HANDLING AND STORAGE

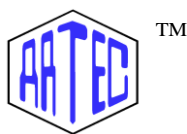
#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special restrictions on storage with other products.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight and freezing. Store preferably between 5 °C and 25 °C.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Control

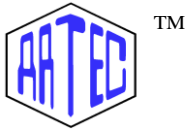
No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	transparent to translucent gel
<b>Odour</b>	Fragranced; pleasant
<b>Freezing/Melting Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	> 100 °C

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Reactivity

No information available

#### Conditions to Avoid

High temperature;

#### Materials to Avoid

Product reacts with: Strong acids; Strong alkalis; Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

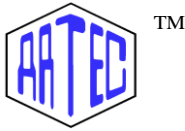
### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50	> 2,000 mg/kg
	(calculated value)	

This product possesses no known toxicological hazards when used as directed and all precautions followed.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### Primary Irritating Potential

Skin corrosion/irritation Not irritating to skin.  
Prolonged contact may cause mild irritation to individuals with very sensitive skin.

Serious eye damage/irritation Corrosive or irritation effects are unlikely;  
None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.

Respiratory or skin sensitization Skin sensitization is considered to be unlikely.

### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Mutagenicity** No experimental evidence of mutagenicity available.

**Carcinogenicity** No experimental evidence of carcinogenicity available.

**Teratogenicity** No experimental evidence of teratogenicity available.

**Reproductive Toxicity** No experimental evidence of reproductive toxicity available.

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## 12 ECOLOGICAL INFORMATION

### Ecotoxicity

Quantitative data on the ecological effect of this product are not available.

### Persistence and Degradability

No information available

### Bioaccumulative Potential

No information available

### Mobility in Soil

No information available

### Result of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Additional Ecological Information

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 13 DISPOSAL CONSIDERATIONS

#### Disposal Consideration

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None
Declaration ADR, RID (railroad and road)	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IMDG-Code (transport by sea)	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IATA-DGR (transport by air)	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.

### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances  
Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

#### Chemical safety assessment

For this product chemical safety assessment not carried out.

### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** REF HEAT PROTECTION SPRAY

**Product number** 33065

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

**National emergency telephone number** 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not classified

**Health hazards**

Not classified

**Environmental hazards**

Not classified

-

**Classification (67/548/EEG) or (1999/45/EG)**

Not classified

**Human health**

Symptoms following overexposure may include the following: headache, fatigue, dizziness, nausea, vomiting.

**2.2. Label elements** -**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

For information on composition of this product, please see the INCI-list on the product. For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging. For further information, please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

**General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

No specific recommendations.

---

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards**

Not applicable

**5.3. Advice for firefighters**

**Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

**Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

For personal protection, see Section 8.

**6.2. Environmental precautions**

**Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

**6.4. Reference to other sections**

**Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in tightly closed, original container in a dry, cool and well ventilated place.

**7.3. Specific end use(s)**

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits** -

**8.2. Exposure controls**

**Eyeface protection**

Eye protection is normally not needed.

**Hand protection**

Hand protection not required.

**Hygiene measures**

When using do not eat, drink or smoke.

**Respiratory protection**

Respiratory protection is not needed.

---

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

Liquid.

**Colour**

Clear

**Odour**

Perfume.

**Flashpoint**

Not determined

**Solubility(ies)**

Soluble in water

**9.2. Other information**

**Other information**

Not applicable.

**Volatile organic compound**

No information required.

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.



## **10.2. Chemical stability**

### **Stability**

Stable at normal ambient temperatures and when used as recommended.

## **10.3. Possibility of hazardous reactions**

Not known.

## **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

## **10.5. Incompatible materials**

### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

## **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

-

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Eco toxicity**

There are no data on the eco toxicity of this product.

### **12.1. Toxicity**

No data is available regarding the preparation itself.

### **12.2. Persistence and degradability**

#### **Persistence and degradability**

There are no data on the degradability of this product.

### **12.3. Bio accumulative potential**

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility**

No information available

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

##### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

##### **Disposal methods**

Re-use or re-cycle when possible. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations

<b>Waste class</b>	Non-empty containers:	15 01 10*
	Empty containers:	15 01 07

### **SECTION 14: Transport information**

**General** Containers may be transported by road (ADR) as limited quantities (1L) if the package does not exceed 30 kg in carton or 20 kg on trays with stretch-shrink film. Each package shall be marked with a square, set on a corner, the upper and the lower part is black, with a side length of 100 mm.

#### **14.1. UN-number**

<b>UN No. (ADR/RID)</b>	1170
<b>UN No. (IMDG)</b>	1170
<b>UN No. (ICAO)</b>	1170
<b>UN No. (ADN)</b>	1170

#### **14.2. UN proper shipping name**

<b>Proper shipping name (ADR/RID)</b>	ETHANOL SOLUTION (ETHYL ALCOHOL)
<b>Proper shipping name (IMDG)</b>	ETHANOL SOLUTION (ETHYL ALCOHOL)
<b>Proper shipping name (ICAO)</b>	ETHANOL SOLUTION (ETHYL ALCOHOL)
<b>Proper shipping name (ADN)</b>	ETHANOL SOLUTION (ETHYL ALCOHOL)

#### **14.3. Transport hazard class(es)**

<b>ADR/RID class</b>	3
<b>IMDG class</b>	3
<b>ICAO class/division</b>	3

##### **Transport labels**



#### **14.4. Packing group**

II

#### **14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant** No

#### **14.6. Special precautions for user**

**Tunnel restriction code** (D/E)

**EmS** F-E, S-D

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF HOLD & SHINE HAIRSPRAY**Product number** 33062**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

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**SECTION 3: Composition/information on ingredients**

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**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.



## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** REF LEAVE IN CONDITIONER

**Product number** 33066

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

**National emergency telephone number** 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not classified

**Health hazards**

Not classified

**Environmental hazards**

Not classified

-

**Classification (67/548/EEG) or (1999/45/EG)**

Not classified

**Human health**

Symptoms following overexposure may include the following: headache, fatigue, dizziness, nausea, vomiting.

**2.2. Label elements**

-

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

For information on composition of this product, please see the INCI-list on the product. For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging. For further information, please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

**General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

No specific recommendations.

---

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards**

Not applicable

**5.3. Advice for firefighters**

**Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

**Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

For personal protection, see Section 8.

**6.2. Environmental precautions**

**Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

**6.4. Reference to other sections**

**Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in tightly closed, original container in a dry, cool and well ventilated place.

**7.3. Specific end use(s)**

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits** -

**8.2. Exposure controls**

**Eye/face protection**

Eye protection is normally not needed.

**Hand protection**

Hand protection not required.

**Hygiene measures**

When using do not eat, drink or smoke.

**Respiratory protection**

Respiratory protection is not needed.

---

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

Liquid.

**Colour**

Clear

**Odour**

Perfume.

**Flashpoint**

Not determined

**Solubility(ies)**

Soluble in water

**9.2. Other information**

**Other information**

Not applicable.

**Volatile organic compound**

No information required.

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

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#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

#### **Eco toxicity**

There are no data on the eco toxicity of this product.

### **12.1. Toxicity**

No data is available regarding the preparation itself.

### **12.2. Persistence and degradability**

#### **Persistence and degradability**

There are no data on the degradability of this product.

### **12.3. Bio accumulative potential**

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility**

No information available

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

No information required.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

**Disposal methods**

Re-use or re-cycle when possible. Dispose of waste according to local and national regulations.

Waste class        07 06 04\*

**SECTION 14: Transport information**

**General**                                This product is not classified as hazardous goods (IMDG, IATA, ADR/RID).

**14.1. UN-number**

UN No. (ADR/RID)                     -  
 UN No. (IMDG)                        -  
 UN No. (ICAO)                        -  
 UN No. (ADN)                         -

**14.2. UN proper shipping name**

Proper shipping name                Not hazardous  
 (ADR/RID)  
 Proper shipping name                Not hazardous  
 (IMDG)  
 Proper shipping name                Not hazardous  
 (ICAO)  
 Proper shipping name                Not hazardous  
 (ADN)

**14.3. Transport hazard class(es)**

Not applicable

ADR/RID class

IMDG class

ICAO class/division

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant No

**14.6. Special precautions for user**

Not applicable

**EmS**

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by**

HS&E Manager.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF MOUSSE**Product number** 33064**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

---

**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Cosmetic product data sheet for professional use

**NEUTRALIZER FOR PERMS AND STRAIGHTENING TREATMENTS**

Edition date : 01 January 2012

Revision date : -----

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

**GENERAL INFORMATION :**

Product name : .....

Classification : solution

Company Identification : **Pool Service S.r.l.**  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

For further information about this product please call : +39.331.311399



## 2. COMPOSITION /INFORMATION ON INGREDIENTS :

**Product description :** hydrogen peroxide solutions or other oxidizing substances .

## 3. HAZARDS IDENTIFICATION :

**Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product .

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

- Remove all sources of ignition or heat, stop any loss of material, provide ventilation.  
Place spilled material into appropriate waste containers and wash off with plenty of water .  
In case of massive spreading of product alert the Fire Brigade.

### Personal Precautions :

- Wear self-contained breathing apparatus, appropriate protective gloves and clothing

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

- Keep away from strong reducing substances as perms and straightening treatments..

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 DI.Lgs. 81/08):

- Wear suitable clean clothing and gloves
- Avoid nickel or ferrous tools
- Avoid to wear trinkets
- **Respiratory protection** : suitable mask
- **Hand protection** : disposable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** liquid, solid.  
**Odor:** characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

### **13. DISPOSAL CONSIDERATION**

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

### **14. TRANSPORT INFORMATION**

NONE

### **15. INFORMATIONS ON CURRENT REGULATIONS**

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

The information here reported refer to the obtained mixture with : oxidation hair dye, tone on tone colouring cream, bleaching powder.

### **Sanitary warning:**

Do not apply on the scalp if broken, irritated or affected by pathologies, as the product may cause allergic reactions in very sensitive persons.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the annexed sheet,;
- Rinse one's hair well after application;
- Do not use on hair previously treated with metallic dyes;
- Follow the recommended sitting time;
- Keep away from children ;

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** REF OCEAN MIST

**Product number** 33068

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

**National emergency telephone number** 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not classified

**Health hazards**

Not classified

**Environmental hazards**

Not classified

-

**Classification (67/548/EEG) or (1999/45/EG)**

Not classified

**Human health**

Symptoms following overexposure may include the following: headache, fatigue, dizziness, nausea, vomiting.

**2.2. Label elements**

-

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

For information on composition of this product, please see the INCI-list on the product. For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging. For further information, please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

**General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

No specific recommendations.

---

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards**

Not applicable

**5.3. Advice for firefighters**

**Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

**Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

For personal protection, see Section 8.

**6.2. Environmental precautions**

**Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

**6.4. Reference to other sections**



**Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in tightly closed, original container in a dry, cool and well ventilated place.

**7.3. Specific end use(s)**

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits** -

**8.2. Exposure controls**

**Eye/face protection**

Eye protection is normally not needed.

**Hand protection**

Hand protection not required.

**Hygiene measures**

When using do not eat, drink or smoke.

**Respiratory protection**

Respiratory protection is not needed.

---

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

Liquid.

**Colour**

Clear

**Odour**

Perfume.

**Flashpoint**

Not determined

**Solubility(ies)**

Soluble in water

**9.2. Other information**

**Other information**

Not applicable.

**Volatile organic compound**

No information required.

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

-

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

#### **Eco toxicity**

There are no data on the eco toxicity of this product.

### **12.1. Toxicity**

No data is available regarding the preparation itself.

### **12.2. Persistence and degradability**

#### **Persistence and degradability**

There are no data on the degradability of this product.

### **12.3. Bio accumulative potential**

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility**

No information available

### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

No information required.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

**Disposal methods**

Re-use or re-cycle when possible. Dispose of waste according to local and national regulations.

Waste class        07 06 04\*

**SECTION 14: Transport information**

**General**                                  This product is not classified as hazardous goods (IMDG, IATA, ADR/RID).

**14.1. UN-number**

UN No. (ADR/RID)                         -  
 UN No. (IMDG)                            -  
 UN No. (ICAO)                            -  
 UN No. (ADN)                             -

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)                 Not hazardous  
 Proper shipping name (IMDG)                        Not hazardous  
 Proper shipping name (ICAO)                        Not hazardous  
 Proper shipping name (ADN)                        Not hazardous

**14.3. Transport hazard class(es)**

Not applicable

**ADR/RID class**

**IMDG class**

**ICAO class/division**

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant** No

**14.6. Special precautions for user**

Not applicable

**EmS**

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information**

**General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by**

HS&E Manager.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**Cosmetic product data sheet for professional use**

***OXIDATION HAIR DYE***

**Edition date :** 05/06/2018

**Revision date :** -----

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
AND THE COMPANY**

**Commercial name :** REF HAIR COLOURING CREAM CORRECTOR SILVER 100ML

**Classification :** Hair dye

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**

## **2. COMPOSITION /INFORMATION ON INGREDIENTS :**

### **Product description :**

Combination of synthetic dyes in different forms:  
( liquid, gel or cream ) in basic room.  
At the time of use the product is mixed with  
hydrogen peroxide.

## **3. HAZARDS IDENTIFICATION :**

### **Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product .

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear appropriate protective gloves and mask .

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

- Keep away from strong reducing substances as perms and straightenings.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 D.Lgs. 81/08):

- Wear suitable clean clothing and gloves
- Avoid nickel tools
- Avoid to wear trinkets
- **Respiratory protection** : suitable mask
- **Hand protection** : disposable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :**

liquid, cream, gel

**Odor:**

characteristic



## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATION ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

The information here reported refer to the obtained mixture with : oxidation hair dye, tone on tone colouring cream, bleaching powder.

### **Sanitary warning:**

Do not use on the scalp if broken, irritated or affected by pathologies;

As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary test as follows: clean a small area behind the ear, apply a small quantity of product for 2 or 3 times and let it dry. Wait 48 hours without washing . If local reddening , swelling or itching appears in the meantime, do not use the product.

It's up to the user decide if carry out a preliminary test or not.

Attention: the final product may generate hydrogen peroxide.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Do not use to dye eyelashes and eyebrows;
- Do not make a perm immediately after or before a dye;
- Rinse one's hair well after application;
- Do not use on hair previously treated with metallic dyes;
- Follow the recommended sitting time;
- Rinse immediately any rest of colouring mixture from skin or clothes ;
- Use the colouring mixture as soon as ready;
- Throw any unused colouring mixture;
- Do not leave the colouring mixture in a hermetically sealed container as it might swell and explode;
- Keep away from the reach of children ;

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: AAREFHA23313-23314  
Product name: REF PEROXIDE 1.9% 6 VOL

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Cosmetic Use

Identified Uses	Industrial	Professional	Consumer
Cosmetic Professiona Use	-	✓	-
Cosmetic no professional Use	-	-	✓

#### 1.3. Details of the supplier of the safety data sheet

Name: PETTENON COSMETICS SPA  
Full address: Via del Palù nr. 7/D  
District and Country: 35018 San Martino di Lupari (PD)  
ITALIA  
Tel. 04999888  
Fax 049998809

e-mail address of the competent person

responsible for the Safety Data Sheet: [safetydoc@pettenon.it](mailto:safetydoc@pettenon.it)  
Product distribution by: Pettenon Cosmetics spa

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
Pavia 0382/24444;  
Milano 02/66101029;  
Bergamo 800 883300;  
Firenze 055/7947819;  
Roma Gemelli 06/3054343;  
Roma Umberto I 06/49978000;  
Napoli 081/7472870;

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.  
Hazard classification and indication:

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210** Safety data sheet available on request.

Precautionary statements:

--

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients**

**3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification**

**HYDROGEN PEROXIDE SOLUTION**

CAS 7722-84-1

1 ≤ x < 5

EC 231-765-0

INDEX 008-003-00-9

Reg. no. 01-2119485845-22-0001

**Classification 1272/2008 (CLP)**

Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, STOT SE 3 H335, Note B

**SECTION 4. First aid measures**

**4.1. Description of first aid measures**

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

## **SECTION 5. Firefighting measures**

### **5.1. Extinguishing media**

#### **SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

#### **UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### **5.2. Special hazards arising from the substance or mixture**

#### **HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

### **5.3. Advice for firefighters**

#### **GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

#### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## **SECTION 6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### **6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en

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FRA	France	España 2015
GBR	United Kingdom	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRC	Ελλάδα	EH40/2005 Workplace exposure limits
		ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9
		Φεβρουαρίου 2012
LTU	Lietuva	DĒL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ
		MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia
		16 grudnia 2011r
	TLV-ACGIH	ACGIH 2016

**HYDROGEN PEROXIDE SOLUTION**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	1,5			
MAK	DEU	0,71	0,5	0,71	0,5
VLA	ESP	1,4	1		
VLEP	FRA	1,5	1		
WEL	GBR	1,4	1	2,8	2
TLV	GRC	1,4	1	3	
RD	LTU	1,4	1	3 (C)	2 (C)
NDS	POL	1,5		4	
TLV-ACGIH		1,4	1		

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0126	mg/l
Normal value in marine water	0,0126	mg/l
Normal value for fresh water sediment	0,47	mg/kg
Normal value for marine water sediment	0,47	mg/kg
Normal value for the terrestrial compartment	0,0023	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers Acute local	Effects on workers			Effects on consumers			
		Acute systemic	Chronic local	Chronic systemic	Acute local	Chronic local	Chronic systemic	
Inhalation	1,93 mg/m3	VND	0,21 mg/m3	VND	3 mg/m3	VND	VND	1,4 mg/m3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

**HAND PROTECTION**

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.



**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	white creamy emulsion
Colour	white
Odour	characteristic
Odour threshold	Not available
pH	3.0 - 3.5
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.005 ± 0.005 g/ml
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	900-1200 cps (22°, G4, 30rpm)
Explosive properties	Not available
Oxidising properties	Not available

**9.2. Other information**

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0
% equivalent active oxygen (%m/m)	2.1 +/- 0.5

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

HYDROGEN PEROXIDE SOLUTION

Decomposes if exposed to: light,heat.Decomposes on contact with: alkaline metals.Possibility of explosion.

**10.2. Chemical stability**

Information not available

**10.3. Possibility of hazardous reactions**

The product may react violently with water.

**10.4. Conditions to avoid**

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

HYDROGEN PEROXIDE SOLUTION

Avoid exposure to: light,heat.Avoid contact with: alkaline substances.

**10.5. Incompatible materials**

HYDROGEN PEROXIDE SOLUTION

Incompatible with: flammable substances,acetone,ethanol,glycerol,organic substances,iron,copper,bronze,chromium,zinc,lead,silver,manganes,acetic acid. sulphides,hydrated bases,oxidising

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information

Information not availableInformation not available

Information on likely routes of exposure

Information not availableInformation not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not availableInformation not available

Interactive effects

Information not availableInformation not available

ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture:LC50 (Inhalation - vapours) of the mixture:

&gt; 20 mg/l

LC50 (Inhalation - mists / powders) of the mixture:LC50 (Inhalation - mists / powders) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture:LD50 (Oral) of the mixture:

&gt;2000 mg/kg

LD50 (Dermal) of the mixture:LD50 (Dermal) of the mixture:

Not classified (no significant component)

HYDROGEN PEROXIDE SOLUTION

1193 mg/kg Rat

LD50 (Oral)

at the concentration of 35%

&gt; 2000 mg/kg rabbit

LD50 (Dermal)

&gt; 0,17 mg/l rat

LC50 (Inhalation)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

## SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity

HYDROGEN PEROXIDE SOLUTION	
LC50 - for Fish	> 16,4 mg/l/96h piscis
EC50 - for Crustacea	> 2,4 mg/l/48h dafnia
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h
Chronic NOEC for Fish	4,3 mg/l
Chronic NOEC for Crustacea	1 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,1 mg/l

### 12.2. Persistence and degradability

HYDROGEN PEROXIDE SOLUTION	
Solubility in water	100000 mg/l
Rapidly biodegradable	

### 12.3. Bioaccumulative potential

HYDROGEN PEROXIDE SOLUTION	
Partition coefficient: n-octanol/water	-1,57

### 12.4. Mobility in soil

HYDROGEN PEROXIDE SOLUTION	
Partition coefficient: soil/water	0,2

### 12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

### 12.6. Other adverse effects

Information not available

## SECTION 13. Disposal considerations

**13.1. Waste treatment methods**

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

## SECTION 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

None

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Liq. 1</b>	Oxidising liquid, category 1
<b>Ox. Liq. 2</b>	Oxidising liquid, category 2
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>H271</b>	May cause fire or explosion; strong oxidiser.

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<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>EUH210</b>	Safety data sheet available on request.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety

laws and regulations. The producer is relieved from any liability arising from improper uses.  
Provide appointed staff with adequate training on how to use chemical products.

Changes to previous review:  
The following sections were modified:  
09.



## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: ZZOXY83292  
 Product name: AAREFHA23307 REF PEROXIDE 3% 10 VOL 1000 ML

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Industrial	Professional	Consumer
Cosmetic Professiona Use	-	✓	-
Cosmetic no professional Use	-	-	✓

#### 1.3. Details of the supplier of the safety data sheet

Name: PETTENON COSMETICS s.p.a.  
 Full address: Via del Palù nr. 7/D  
 District and Country: 35018 San Martino di Lupari (PD)  
 ITALIA  
 Tel.: +39(0)4999888  
 Fax.: +39(0) 049998809

e-mail address of the competent person

responsible for the Safety Data Sheet: [safetydoc@pettenon.it](mailto:safetydoc@pettenon.it)  
 Product distribution by: PETTENON COSMETICS s.p.a.

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
 Pavia 0382/24444;  
 Milano 02/66101029;  
 Bergamo 800 883300;  
 Firenze 055/7947819;  
 Roma Gemelli 06/3054343;  
 Roma Umberto I 06/49978000;  
 Napoli 081/7472870;

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP). However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to EC Regulation 1907/2006 and subsequent amendments.  
 Hazard classification and indication:

#### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms: --

Signal words: --

Hazard statements:

**EUH210** Safety data sheet available on request.

Precautionary statements:

--

### 2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients.

### 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

Contains:

Identification.	Conc. %.	Classification 1272/2008 (CLP).
<b>HYDROGEN PEROXIDE SOLUTION</b>		
CAS. 7722-84-1	1 - 5	Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, STOT SE 3 H335, Note B
EC. 231-765-0		
INDEX. 008-003-00-9		
Reg. no. 01-2119485845-22-0001		

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures.

### 4.1. Description of first aid measures.

**EYES:** Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

### 4.2. Most important symptoms and effects, both acute and delayed.

For symptoms and effects caused by the contained substances, see chap. 11.

**4.3. Indication of any immediate medical attention and special treatment needed.**

Information not available.

**SECTION 5. Firefighting measures.****5.1. Extinguishing media.**

## SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

## UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture.**

## HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**5.3. Advice for firefighters.**

## GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

## SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures.****6.1. Personal precautions, protective equipment and emergency procedures.**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions.**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up.**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in

compliance with the provisions set forth in point 13.

**6.4. Reference to other sections.**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage.**

**7.1. Precautions for safe handling.**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities.**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s).**

Information not available.

**SECTION 8. Exposure controls/personal protection.**

**8.1. Control parameters.**

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GRB	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
	TLV-ACGIH	ACGIH 2014

**HYDROGEN PEROXIDE SOLUTION**

**Threshold Limit Value.**

Type	Country	TWA/8h	STEL/15min
		mg/m3	ppm
		ppm	mg/m3

TLV	BGR	1,5			
MAK	DEU	0,71	0,5	0,71	0,5
VLA	ESP	1,4	1		
VLEP	FRA	1,5	1		
WEL	GRB	1,4	1	2,8	2
TLV	GRC	1,4	1	3	
RD	LTU	1,4	1	3 (C)	2 (C)
NDS	POL	1,5		4	
TLV-ACGIH		1,4	1		

Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,0126	mg/l
Normal value in marine water	0,0126	mg/l
Normal value for fresh water sediment	0,47	mg/kg
Normal value for marine water sediment	0,47	mg/kg
Normal value for the terrestrial compartment	0,0023	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.	1,93 mg/m3	VND	0,21 mg/m3	VND	3 mg/m3	VND	VND	1,4 mg/m3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls.**

Comply with the safety measures usually applied when handling chemical substances.

HAND PROTECTION  
None required.

SKIN PROTECTION  
None required.

EYE PROTECTION  
None required.

RESPIRATORY PROTECTION  
None required, unless indicated otherwise in the chemical risk assessment.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties.**

**9.1. Information on basic physical and chemical properties.**

Appearance	white creamy emulsion
Colour	white
Odour	characteristic

Odour threshold.	Not available.
pH.	3.0 - 3.5
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	Not available.
Vapour density	Not available.
Relative density.	1,009 Kg/l
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	900 - 1200 cps (22°, G4, 30rpm)
Explosive properties	Not available.
Oxidising properties	Not available.

## 9.2. Other information.

VOC (Directive 2010/75/EC) :	< 0.01 % - 0,00 g/litre.
VOC (volatile carbon) :	< 0.01 % - 0,00 g/litre.
% equivalent active oxygen (%m/m)	3.0 +/- 0.5

## SECTION 10. Stability and reactivity.

### 10.1. Reactivity.

HYDROGEN PEROXIDE SOLUTION: decomposes rapidly with risk of explosion due to the effect of light, heat and contact with alkaline metals.

### 10.2. Chemical stability.

Information not available.

### 10.3. Possibility of hazardous reactions.

The product may react violently with water.

### 10.4. Conditions to avoid.

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

HYDROGEN PEROXIDE SOLUTION: exposure to light, heat and alkaline substances.

### 10.5. Incompatible materials.

HYDROGEN PEROXIDE SOLUTION: flammable substances, acetone, ethanol, glycerol, organic sulphides, hydrated bases, oxidisable materials, iron,

copper, bronze, chromium, zinc, lead, silver, manganese and acetic acid.

#### 10.6. Hazardous decomposition products.

Information not available.

## SECTION 11. Toxicological information.

### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

#### HYDROGEN PEROXIDE

Tossicità a dose ripetuta

- Orale, Esposizione prolungata , topo, Tratto gastrointestinale 300 ppm(m), LOAEL
- Orale, Esposizione prolungata , topo, 100 ppm , NOAEL
- Inalazione, Esposizione ripetuta , ratto, Sistema respiratorio  $\geq$  10 ppm(m), LOAEL
- Inalazione, Esposizione prolungata , ratto, 2 ppm , NOAEL

Mutagenicità

- Test in vitro hanno rivelato effetti mutagenici.
- Test su animali non hanno rivelato nessun effetto mutagenico.
- Non classificato a causa di dati non conclusivi.

Cancerogenicità

- Orale, Esposizione prolungata, topo, Organi bersaglio: Duodeno, effetti cancerogeni
- Dermico, Esposizione prolungata, topo, Test su animali non hanno rivelato nessun effetto cancerogeno.
- Inalazione, Esposizione prolungata, topo, Test su animali non hanno rivelato nessun effetto cancerogeno.
- Non classificato a causa di dati non conclusivi.

Tossicità per la riproduzione

- La sostanza è biotrasformata completamente (metabolizzata).
- studio scientificamente ingiustificato

#### HYDROGEN PEROXIDE SOLUTION

LD50 (Oral). 1193 mg/kg Rat

at the concentration of 35%

LD50 (Dermal). > 2000 mg/kg rabbit

LC50 (Inhalation). > 0,17 mg/l rat

## SECTION 12. Ecological information.

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### 12.1. Toxicity.

#### HYDROGEN PEROXIDE SOLUTION

LC50 - for Fish. > 16,4 mg/l/96h piscis

EC50 - for Crustacea. > 2,4 mg/l/48h dafnia

EC50 - for Algae / Aquatic Plants. 4,3 mg/l/72h

Chronic NOEC for Fish. 4,3 mg/l

Chronic NOEC for Crustacea. 1 mg/l

Chronic NOEC for Algae /  
Aquatic Plants. 0,1 mg/l

#### 12.2. Persistence and degradability.

HYDROGEN PEROXIDE  
SOLUTION  
Solubility in water. 100000 mg/l  
Rapidly biodegradable.

#### 12.3. Bioaccumulative potential.

HYDROGEN PEROXIDE  
SOLUTION  
Partition coefficient: n-  
octanol/water. -1,57

#### 12.4. Mobility in soil.

HYDROGEN PEROXIDE  
SOLUTION  
Partition coefficient:  
soil/water. 0,2

#### 12.5. Results of PBT and vPvB assessment.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

#### 12.6. Other adverse effects.

Information not available.

### SECTION 13. Disposal considerations.

#### 13.1. Waste treatment methods.

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

### SECTION 14. Transport information.

#### 14.1. UN number.

Not applicable.



**14.2. UN proper shipping name.**

Not applicable.

**14.3. Transport hazard class(es).**

Not applicable.

**14.4. Packing group.**

Not applicable.

**14.5. Environmental hazards.**

Not applicable.

**14.6. Special precautions for user.**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code.**

Information not relevant.

**SECTION 15. Regulatory information.****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso category.

Cosmetic product, not  
relevant

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.

None.

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

#### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

### SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Liq. 1</b>	Oxidising liquid, category 1
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>H271</b>	May cause fire or explosion; strong oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>EUH210</b>	Safety data sheet available on request.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level

- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - ECHA website

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: AAREFHA23308 / AAREFHA23311  
Product name: REF PEROXIDE 6% 20 VOL

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Industrial	Professional	Consumer
Cosmetic Professiona Use	-	✓	-
Cosmetic no professional Use	-	-	✓

#### 1.3. Details of the supplier of the safety data sheet

Name: PETTENON COSMETICS SPA  
Full address: Via del Palù nr. 7/D  
District and Country: 35018 San Martino di Lupari (PD)  
ITALIA  
Tel. 04999888  
Fax 049998809

e-mail address of the competent person

responsible for the Safety Data Sheet: [safetydoc@pettenon.it](mailto:safetydoc@pettenon.it)  
Product distribution by: Pettenon Cosmetics spa

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
Pavia 0382/24444;  
Milano 02/66101029;  
Bergamo 800 883300;  
Firenze 055/7947819;  
Roma Gemelli 06/3054343;  
Roma Umberto I 06/49978000;  
Napoli 081/7472870;

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2 H319 Causes serious eye irritation.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

**H319** Causes serious eye irritation.

Precautionary statements:

**P280** Wear eye protection / face protection.  
**P337+P313** If eye irritation persists: Get medical advice / attention.

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients**

**3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification**

**HYDROGEN PEROXIDE SOLUTION**

CAS 7722-84-1  $5 \leq x < 8$

EC 231-765-0

INDEX 008-003-00-9

Reg. no. 01-2119485845-22-0001

**Alcool laurico**

CAS 112-53-8  $0,1 \leq x < 1$

EC 203-982-0

INDEX -

Reg. no. 01-2119485976-15

**Alcool miristilico**

CAS 112-72-1  $0,1 \leq x < 0,25$

EC 204-000-3

**Classification 1272/2008 (CLP)**

Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, STOT SE 3 H335, Note B

Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

Eye Irrit. 2 H319, Aquatic Chronic 1 H410 M=1

INDEX -

Reg. no. 01-2119485910-33

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptoms and effects caused by the product are unknown.

### 4.3. Indication of any immediate medical attention and special treatment needed

Information not available

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

### 5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

### 5.3. Advice for firefighters

**GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

**AAREFHA23308 / AAREFHA23311- REF PEROXIDE 6% 20 VOL**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
	TLV-ACGIH	ACGIH 2016

**HYDROGEN PEROXIDE SOLUTION**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	1,5			
MAK	DEU	0,71	0,5	0,71	0,5
VLA	ESP	1,4	1		
VLEP	FRA	1,5	1		
WEL	GBR	1,4	1	2,8	2
TLV	GRC	1,4	1	3	
RD	LTU	1,4	1	3 (C)	2 (C)
NDS	POL	1,5		4	
TLV-ACGIH		1,4	1		

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0126	mg/l
Normal value in marine water	0,0126	mg/l
Normal value for fresh water sediment	0,47	mg/kg
Normal value for marine water sediment	0,47	mg/kg
Normal value for the terrestrial compartment	0,0023	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Effects on consumers	Effects on workers
----------------------	--------------------



**AAREFHA23308 / AAREFHA23311- REF PEROXIDE 6% 20 VOL**

Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	1,93 mg/m3	VND	0,21 mg/m3	VND	3 mg/m3	VND	VND	1,4 mg/m3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear airtight protective goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	white creamy emulsion
Colour	white
Odour	characteristic
Odour threshold	Not available
pH	3.0 - 3.5
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available

**AAREFHA23308 / AAREFHA23311- REF PEROXIDE 6% 20 VOL**

Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	900 - 1200 cps (22°, G4, 30rpm)
Explosive properties	Not available
Oxidising properties	Not available

**9.2. Other information**

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0
% equivalent active oxygen (%m/m)	6.0 +/- 0.5

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

HYDROGEN PEROXIDE SOLUTION

Decomposes if exposed to: light,heat.Decomposes on contact with: alkaline metals.Possibility of explosion.

**10.2. Chemical stability**

Information not available

**10.3. Possibility of hazardous reactions**

The product may react violently with water.

**10.4. Conditions to avoid**

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

HYDROGEN PEROXIDE SOLUTION

Avoid exposure to: light,heat.Avoid contact with: alkaline substances.

**10.5. Incompatible materials**

**AAREFHA23308 / AAREFHA23311- REF PEROXIDE 6% 20 VOL**

HYDROGEN PEROXIDE SOLUTION

Incompatible with: flammable substances, acetone, ethanol, glycerol, organic sulphides, hydrated bases, oxidising substances, iron, copper, bronze, chromium, zinc, lead, silver, manganese, acetic acid.

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - vapours) of the mixture:

> 20 mg/l

LC50 (Inhalation - mists / powders) of the mixture: LC50 (Inhalation - mists / powders) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture: LD50 (Oral) of the mixture:

>2000 mg/kg

LD50 (Dermal) of the mixture: LD50 (Dermal) of the mixture:

Not classified (no significant component)

HYDROGEN PEROXIDE SOLUTION

1193 mg/kg Rat

LD50 (Oral)

at the concentration of 35%

> 2000 mg/kg rabbit

LD50 (Dermal)

> 0,17 mg/l rat

LC50 (Inhalation)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

**AAREFHA23308 / AAREFHA23311- REF PEROXIDE 6% 20 VOL**

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritationCauses serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard classDoes not meet the classification criteria for this hazard class

**SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

**12.1. Toxicity**

HYDROGEN PEROXIDE SOLUTION

LC50 - for Fish	> 16,4 mg/l/96h piscis
EC50 - for Crustacea	> 2,4 mg/l/48h dafnia
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h
Chronic NOEC for Fish	4,3 mg/l
Chronic NOEC for Crustacea	1 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,1 mg/l

**12.2. Persistence and degradability**

HYDROGEN PEROXIDE SOLUTION

Solubility in water	100000 mg/l
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Rapidly biodegradable

**12.3. Bioaccumulative potential**

HYDROGEN PEROXIDE

**AAREFHA23308 / AAREFHA23311- REF PEROXIDE 6% 20 VOL**

SOLUTION

Partition coefficient: n-octanol/water -1,57

**12.4. Mobility in soil**

HYDROGEN PEROXIDE SOLUTION

Partition coefficient: soil/water 0,2

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**15.2. Chemical safety assessment**

No chemical safety assessment has been processed for the mixture and the substances it contains.

**SECTION 16. Other information**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Liq. 1</b>	Oxidising liquid, category 1
<b>Ox. Liq. 2</b>	Oxidising liquid, category 2
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H271</b>	May cause fire or explosion; strong oxidiser.
<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP

- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

02 / 03 / 04 / 08 / 09 / 10 / 11 / 12 / 15.



## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: AAREFHA23309  
Product name: REF PEROXIDE 9% 30 VOL

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use: Cosmetic Use

Identified Uses	Industrial	Professional	Consumer
Cosmetic Professiona Use	-	✓	-
Cosmetic no professional Use	-	-	✓

#### 1.3. Details of the supplier of the safety data sheet

Name: PETTENON COSMETICS SPA  
Full address: Via del Palù nr. 7/D  
District and Country: 35018 San Martino di Lupari (PD)  
ITALIA  
Tel. 04999888  
Fax 049998809

e-mail address of the competent person

responsible for the Safety Data Sheet: [safetydoc@pettenon.it](mailto:safetydoc@pettenon.it)  
Product distribution by: Pettenon Cosmetics spa

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
Pavia 0382/24444;  
Milano 02/66101029;  
Bergamo 800 883300;  
Firenze 055/7947819;  
Roma Gemelli 06/3054343;  
Roma Umberto I 06/49978000;  
Napoli 081/7472870;

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1 H318 Causes serious eye damage.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

**H318** Causes serious eye damage.

Precautionary statements:

**P280** Wear eye protection / face protection.  
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P310** Immediately call a POISON CENTER

**Contains:** HYDROGEN PEROXIDE SOLUTION

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients**

**3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification**

**HYDROGEN PEROXIDE SOLUTION**

CAS 7722-84-1

$8 \leq x < 10$

**Classification 1272/2008 (CLP)**

Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, STOT SE 3 H335, Note B

EC 231-765-0

INDEX 008-003-00-9

Reg. no. 01-2119485845-22-0001

**Alcool laurico**

CAS 112-53-8

$0,1 \leq x < 1$

Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 203-982-0

INDEX -

Reg. no. 01-2119485976-15

**Alcool miristilico**

CAS 112-72-1

$0,1 \leq x < 0,25$

Eye Irrit. 2 H319, Aquatic  
Chronic 1 H410 M=1

EC 204-000-3

INDEX -

Reg. no. 01-2119485910-33

**SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

**SECTION 5. Firefighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**5.3. Advice for firefighters****GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

**6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

**6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
	TLV-ACGIH	ACGIH 2016

**HYDROGEN PEROXIDE SOLUTION**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	1,5			
MAK	DEU	0,71	0,5	0,71	0,5
VLA	ESP	1,4	1		
VLEP	FRA	1,5	1		
WEL	GBR	1,4	1	2,8	2
TLV	GRC	1,4	1	3	
RD	LTU	1,4	1	3 (C)	2 (C)
NDS	POL	1,5		4	
TLV-ACGIH		1,4	1		

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0126	mg/l
Normal value in marine water	0,0126	mg/l

**PETTENON COSMETICS SPA**

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Normal value for fresh water sediment	0,47	mg/kg
Normal value for marine water sediment	0,47	mg/kg
Normal value for the terrestrial compartment	0,0023	mg/kg

**Health - Derived no-effect level - DNEL / DMEL**

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation	1,93 mg/m3	VND	0,21 mg/m3	VND	3 mg/m3	VND	VND	1,4 mg/m3

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

**8.2. Exposure controls**

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

**HAND PROTECTION**

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

**SKIN PROTECTION**

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

**EYE PROTECTION**

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance	white creamy emulsion
Colour	white
Odour	characteristic

Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	900 - 1200 cps (22°, G4, 30rpm)
Explosive properties	Not available
Oxidising properties	Not available

**9.2. Other information**

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0
% equivalent active oxygen (%m/m)	9.0 +/- 0.5

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

HYDROGEN PEROXIDE SOLUTION

Decomposes if exposed to: light,heat.Decomposes on contact with: alkaline metals.Possibility of explosion.

**10.2. Chemical stability**

Information not available

**10.3. Possibility of hazardous reactions**

The product may react violently with water.

**10.4. Conditions to avoid**

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

HYDROGEN PEROXIDE SOLUTION

Avoid exposure to: light,heat.Avoid contact with: alkaline substances.

**10.5. Incompatible materials**

HYDROGEN PEROXIDE SOLUTION

Incompatible with: flammable substances, acetone, ethanol, glycerol, organic sulphides, hydrated bases, oxidising substances, iron, copper, bronze, chromium, zinc, lead, silver, manganese, acetic acid.

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - vapours) of the mixture:

> 20 mg/l

LC50 (Inhalation - mists / powders) of the mixture: LC50 (Inhalation - mists / powders) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture: LD50 (Oral) of the mixture:

> 2000 mg/kg

LD50 (Dermal) of the mixture: LD50 (Dermal) of the mixture:

Not classified (no significant component)

HYDROGEN PEROXIDE SOLUTION

1193 mg/kg Rat

LD50 (Oral)

at the concentration of 35%

> 2000 mg/kg rabbit

LD50 (Dermal)

> 0,17 mg/l rat



LC50 (Inhalation)

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

**12.1. Toxicity**

HYDROGEN PEROXIDE SOLUTION

LC50 - for Fish	> 16,4 mg/l/96h piscis
EC50 - for Crustacea	> 2,4 mg/l/48h dafnia
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h
Chronic NOEC for Fish	4,3 mg/l
Chronic NOEC for Crustacea	1 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,1 mg/l

**12.2. Persistence and degradability**

HYDROGEN PEROXIDE SOLUTION

Solubility in water 100000 mg/l

Rapidly biodegradable

**12.3. Bioaccumulative potential**

HYDROGEN PEROXIDE  
SOLUTIONPartition coefficient: n-  
octanol/water -1,57**12.4. Mobility in soil**HYDROGEN PEROXIDE  
SOLUTIONPartition coefficient:  
soil/water 0,2**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**Product containing % between 8% and 12% was considered not to be an oxidizing liquid according to Method 34.4.2 Test 0.2 (Test for oxidizing liquids of manual of tests and Criteria – United nations, Fifth revised edition 2009).**

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Liq. 1</b>	Oxidising liquid, category 1
<b>Ox. Liq. 2</b>	Oxidising liquid, category 2
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H271</b>	May cause fire or explosion; strong oxidiser.
<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

01 / 03 / 09 / 10 / 11 / 12 / 15.

## Safety data sheet

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Code: AAREFHA23310 - AAREFHA23312  
Product name: REF PEROXIDE 12% 40 VOL

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified Uses	Industrial	Professional	Consumer
Cosmetic Professiona Use	-	✓	-
Cosmetic no professional Use	-	-	✓

#### 1.3. Details of the supplier of the safety data sheet

Name: PETTENON COSMETICS SPA  
Full address: Via del Palù nr. 7/D  
District and Country: 35018 San Martino di Lupari (PD)  
ITALIA  
Tel. 04999888  
Fax 049998809

e-mail address of the competent person

responsible for the Safety Data Sheet: [safetydoc@pettenon.it](mailto:safetydoc@pettenon.it)  
Product distribution by: Pettenon Cosmetics spa

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
Pavia 0382/24444;  
Milano 02/66101029;  
Bergamo 800 883300;  
Firenze 055/7947819;  
Roma Gemelli 06/3054343;  
Roma Umberto I 06/49978000;  
Napoli 081/7472870;

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Serious eye damage, category 1

H318

Causes serious eye damage.

#### 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

**H318** Causes serious eye damage.

Precautionary statements:

**P280** Wear eye protection / face protection.

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P310** Immediately call a POISON CENTER

**Contains:** HYDROGEN PEROXIDE SOLUTION

**2.3. Other hazards**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**SECTION 3. Composition/information on ingredients**

**3.1. Substances**

Information not relevant

**3.2. Mixtures**

Contains:

The full wording of hazard (H) phrases is given in section 16 of the sheet.

**Identification**

**Classification 1272/2008 (CLP)**

**HYDROGEN PEROXIDE SOLUTION**

CAS 7722-84-1  $10 \leq x < 20$

Ox. Liq. 1 H271, Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Corr. 1A H314, STOT SE 3 H335, Note B

EC 231-765-0

INDEX 008-003-00-9

Reg. no. 01-2119485845-22-0001

**Alcool laurico**

CAS 112-53-8  $0,1 \leq x < 1$

Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

EC 203-982-0

INDEX -

Reg. no. 01-2119485976-15

**Alcool miristilico**

CAS 112-72-1

0,1 ≤ x &lt; 0,25

Eye Irrit. 2 H319, Aquatic  
Chronic 1 H410 M=1

EC 204-000-3

INDEX -

Reg. no. 01-2119485910-33

**SECTION 4. First aid measures****4.1. Description of first aid measures**

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

**4.2. Most important symptoms and effects, both acute and delayed**

Specific information on symptoms and effects caused by the product are unknown.

**4.3. Indication of any immediate medical attention and special treatment needed**

Information not available

**SECTION 5. Firefighting measures****5.1. Extinguishing media****SUITABLE EXTINGUISHING EQUIPMENT**

Extinguishing substances are: carbon dioxide and chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

**UNSUITABLE EXTINGUISHING EQUIPMENT**

Do not use jets of water.

Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

**5.2. Special hazards arising from the substance or mixture****HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.



### 5.3. Advice for firefighters

#### GENERAL INFORMATION

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

#### SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection**

**8.1. Control parameters**

Regulatory References:

BGR	България	МИНИСТЕРСТВО НА ТРУДА И СОЦИАЛНАТА ПОЛИТИКА МИНИСТЕРСТВО НА ЗДРАВЕОПАЗВАНЕТО НАРЕДБА No 13 от 30 декември 2003 г
DEU	Deutschland	MAK-und BAT-Werte-Liste 2012
ESP	España	INSHT - Límites de exposición profesional para agentes químicos en España 2015
FRA	France	JORF n°0109 du 10 mai 2012 page 8773 texte n° 102
GBR	United Kingdom	EH40/2005 Workplace exposure limits
GRC	Ελλάδα	ΕΦΗΜΕΡΙΣ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ -ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 19 - 9 Φεβρουαρίου 2012
LTU	Lietuva	DĖL LIETUVOS HIGIENOS NORMOS HN 23:2007 CHEMINIŲ MEDŽIAGŲ 2007 m. spalio 15 d. Nr. V-827/A1-287
POL	Polska	ROZPORZĄDZENIE MINISTRA PRACY I POLITYKI SPOŁECZNEJ z dnia 16 grudnia 2011r
	TLV-ACGIH	ACGIH 2016

**HYDROGEN PEROXIDE SOLUTION**

**Threshold Limit Value**

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
TLV	BGR	1,5			
MAK	DEU	0,71	0,5	0,71	0,5
VLA	ESP	1,4	1		
VLEP	FRA	1,5	1		
WEL	GBR	1,4	1	2,8	2
TLV	GRC	1,4	1	3	
RD	LTU	1,4	1	3 (C)	2 (C)
NDS	POL	1,5		4	
TLV-ACGIH		1,4	1		

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	0,0126	mg/l
Normal value in marine water	0,0126	mg/l
Normal value for fresh water sediment	0,47	mg/kg

# PETTENON COSMETICS SPA

Revision nr. 4

Dated 20/04/2017

## AAREFHA23310/ AAREFHA23312 - REF PEROXIDE 12% 40 VOL

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Normal value for marine water sediment 0,47 mg/kg  
Normal value for the terrestrial compartment 0,0023 mg/kg

### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers			Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local	Acute local	Acute systemic	Chronic systemic		
Inhalation	1,93 mg/m <sup>3</sup>	VND	0,21 mg/m <sup>3</sup>	VND	3 mg/m <sup>3</sup>	VND	VND	1,4 mg/m <sup>3</sup>

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear a hood visor or protective visor combined with airtight goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	white creamy emulsion
Colour	white
Odour	characteristic
Odour threshold	Not available

pH	3.0 - 3.5
Melting point / freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	900 - 1200 cps (22°, G4, 30rpm)
Explosive properties	Not available
Oxidising properties	Not available

**9.2. Other information**

VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0
% equivalent active oxygen (%m/m)	12.0 +/- 0.5

**SECTION 10. Stability and reactivity**

**10.1. Reactivity**

HYDROGEN PEROXIDE SOLUTION

Decomposes if exposed to: light,heat.Decomposes on contact with: alkaline metals.Possibility of explosion.

**10.2. Chemical stability**

Information not available

**10.3. Possibility of hazardous reactions**

The product may react violently with water.

**10.4. Conditions to avoid**

Avoid overheating. Prevent moisture or water from penetrating inside the containers.

HYDROGEN PEROXIDE SOLUTION

Avoid exposure to: light,heat.Avoid contact with: alkaline substances.

**10.5. Incompatible materials**

HYDROGEN PEROXIDE SOLUTION

Incompatible with: flammable substances, acetone, ethanol, glycerol, organic sulphides, hydrated bases, oxidising substances, iron, copper, bronze, chromium, zinc, lead, silver, manganese, acetic acid.

**10.6. Hazardous decomposition products**

Information not available

**SECTION 11. Toxicological information**

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

**11.1. Information on toxicological effects**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available Information not available

Information on likely routes of exposure

Information not available Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available Information not available

Interactive effects

Information not available Information not available

ACUTE TOXICITY

LC50 (Inhalation - vapours) of the mixture: LC50 (Inhalation - vapours) of the mixture:

> 20 mg/l

LC50 (Inhalation - mists / powders) of the mixture: LC50 (Inhalation - mists / powders) of the mixture:

Not classified (no significant component)

LD50 (Oral) of the mixture: LD50 (Oral) of the mixture:

>2000 mg/kg

LD50 (Dermal) of the mixture: LD50 (Dermal) of the mixture:

Not classified (no significant component)

HYDROGEN PEROXIDE SOLUTION

1193 mg/kg Rat

LD50 (Oral)

at the concentration of 35%

> 2000 mg/kg rabbit

LD50 (Dermal)

> 0,17 mg/l rat

LC50 (Inhalation)

**SKIN CORROSION / IRRITATION**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**CARCINOGENICITY**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**REPRODUCTIVE TOXICITY**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**STOT - SINGLE EXPOSURE**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**STOT - REPEATED EXPOSURE**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**ASPIRATION HAZARD**

Does not meet the classification criteria for this hazard class Does not meet the classification criteria for this hazard class

**SECTION 12. Ecological information**

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

**12.1. Toxicity**

HYDROGEN PEROXIDE SOLUTION

LC50 - for Fish	> 16,4 mg/l/96h piscis
EC50 - for Crustacea	> 2,4 mg/l/48h dafnia
EC50 - for Algae / Aquatic Plants	4,3 mg/l/72h
Chronic NOEC for Fish	4,3 mg/l
Chronic NOEC for Crustacea	1 mg/l
Chronic NOEC for Algae / Aquatic Plants	0,1 mg/l

**12.2. Persistence and degradability**

HYDROGEN PEROXIDE SOLUTION

Solubility in water 100000 mg/l

Rapidly biodegradable

**12.3. Bioaccumulative potential**

HYDROGEN PEROXIDE  
SOLUTIONPartition coefficient: n-  
octanol/water -1,57**12.4. Mobility in soil**HYDROGEN PEROXIDE  
SOLUTIONPartition coefficient:  
soil/water 0,2**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

**12.6. Other adverse effects**

Information not available

**SECTION 13. Disposal considerations****13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**Product containing % between 8% and 12% was considered not to be an oxidizing liquid according to Method 34.4.2 Test 0.2 (Test for oxidizing liquids of manual of tests and Criteria – United nations, Fifth revised edition 2009).**

**14.1. UN number**

Not applicable

**14.2. UN proper shipping name**

Not applicable

**14.3. Transport hazard class(es)**

Not applicable

**14.4. Packing group**

Not applicable

**14.5. Environmental hazards**

Not applicable

**14.6. Special precautions for user**

Not applicable

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

Information not relevant

**SECTION 15. Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:



None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

## SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Ox. Liq. 1</b>	Oxidising liquid, category 1
<b>Ox. Liq. 2</b>	Oxidising liquid, category 2
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1A</b>	Skin corrosion, category 1A
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H271</b>	May cause fire or explosion; strong oxidiser.
<b>H272</b>	May intensify fire; oxidiser.
<b>H302</b>	Harmful if swallowed.
<b>H332</b>	Harmful if inhaled.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number

- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
  4. Regulation (EU) 2015/830 of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- The Merck Index. - 10th Edition
  - Handling Chemical Safety
  - INRS - Fiche Toxicologique (toxicological sheet)
  - Patty - Industrial Hygiene and Toxicology
  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

01 / 03 / 09 / 10 / 11 / 12 / 15.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** REF Pomade 85ml

**Supplier** Artec Chemical Co., Ltd.  
Room 1101, ONE MIDTOWN, 11 Hoi Shing Road,  
Tsuen Wan, N.T., Hong Kong

**Emergency Phone No.** +852-2543-2233  
**Fax No.** +852-2543-1883

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard** None

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

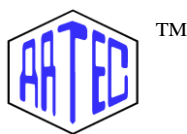
**Description** Mixture of substances listed below with nonhazardous additions

#### Ingredients

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
6440-58-0	229-222-8	-	Acute Tox. 4;	H302	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of soap and water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Special Hazard arising from the Substance or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Extinguishing Media

Suitable Extinguishing Media

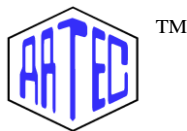
Alcohol-resistant foam; Dry powder; Carbon dioxide; Sand or earth; Water spray

Unsuitable Extinguishing Media

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### Environmental Precautions

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank.

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### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.

#### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special precautions required.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight. Store preferably between 5 °C and 25 °C.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

#### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

#### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	blue solid
Odour	Fragranced; characteristic
Freezing/Melting Point	No data available
Boiling Point	No data available
Flash Point	Not applicable



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Conditions to Avoid

Extremes of temperature; Direct sunlight;

#### Materials to Avoid

Product reacts with: Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50 (calculated value)	> 2,000 mg/kg
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This product possesses no known toxicological hazards when used as directed and all precautions followed.

#### Primary Irritating Potential

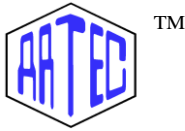
Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	No experimental evidence of sensitizing potential available.

#### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

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### 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Quantitative data on the ecological effect of this product are not available.

#### **Persistence and Degradability**

No information available

#### **Bioaccumulative Potential**

No information available

#### **Mobility in Soil**

No information available

#### **Result of PBT and vPvB Assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### **Additional Ecological Information**

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.

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### 13 DISPOSAL CONSIDERATIONS

#### **Disposal Consideration**

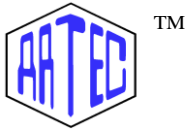
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

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### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None
Declaration ADR, RID (railroad and road)	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IMDG-Code (transport by sea)	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IATA-DGR (transport by air)	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

Chemical safety assessment

For this product chemical safety assessment not carried out.

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### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.

**Cosmetic product data sheet for professional use**

***PROPLEX – STEP 1***

**Edition date:** 05/06/2018

**Revision date:**

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

**Product name:** PROPLEX STEP 1

**Classification:** lotions

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS :

**Product description**

water solution with active substances

## 3. HAZARDS IDENTIFICATION

**Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

**In case of eye contact:**

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

**In case of skin contact:**

- Wash immediately with plenty of water. If irritation persists seek medical attention.

**In case of ingestion :**

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Centre

**In case of inhalation:**

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** non inflammable.

## 6. ACCIDENTAL RELEASE MEASURES

**In case of spilled :**

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

**Personal Precautions :**

- Wear disposable gloves.

## 7. HANDLING AND STORAGE

**Handling :**

- See item 3

**Optimal storage conditions:**

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

**Safe handling advice :**

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 D.Lgs. 81/08):

- Wear suitable clean clothing and clean working tools.
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance :</b>	liquid
<b>Odor:</b>	characteristic

## 10. STABILITY AND REACTIVITY

<b>Stability :</b>	stable under normal pressure and temperature
<b>Reactivity :</b>	no reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

### **13. DISPOSAL CONSIDERATION**

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

### **14. TRANSPORT INFORMATION**

NONE

### **15. INFORMATION ON CURRENT REGULATIONS**

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

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### **Information concerning**

**Sanitary warning :** Do not use on sores, irritated or injured scalp.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Do not mix with other products or similar products not foreseen in the instructions;
- Use and keep away from sources of ignition or heat ;
- Never place spilled product into the original cans to be reused;
- Keep away from children

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**Cosmetic product data sheet for professional use**

***PROPLEX STEP 2***

**Edition date:** 05/06/2018

**Revision date:** -----

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

**Product name:** PROPLEX STEP 2

**Classification:** Mask

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**



## 2. COMPOSITION / INFORMATION ON INGREDIENTS :

### Product description

emulsions with fatty alcohols based on variable viscosity , containing surface active cationic agents.

## 3. HAZARDS IDENTIFICATION

### Information concerning:

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product.

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear disposable gloves.

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :**

liquid, cream

**Odor:**

characteristic

## 10. STABILITY AND REACTIVITY

**Stability :**

stable under normal pressure and temperature

**Reactivity :**

no reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see  
The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems(Title II D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATION ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

### **Information concerning**

**Sanitary warning :** Do no use on irritated scalp or affected by pathologies.  
As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary sensitivity test.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Do not mix with other product not foreseen;
- Never place spilled product into the original cans to be used;
- Keep away from children

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**Cosmetic product data sheet for professional use**

***REF Proplex step 3***

**Edition date:** 11/6/18

**Revision date:** -----

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

**Product name:** proplex step 3

**Classification:** Mask

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.0331.311399**

## 2. COMPOSITION / INFORMATION ON INGREDIENTS :

### Product description

emulsions with fatty alcohols based on variable viscosity , containing surface active cationic agents.

## 3. HAZARDS IDENTIFICATION

### Information concerning:

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product.

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear disposable gloves.



## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** liquid, cream  
**Odor:** characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** no reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see  
The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems(Title II D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATION ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

---

### **Information concerning**

**Sanitary warning :** Do no use on irritated scalp or affected by pathologies.  
As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary sensitivity test.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Do not mix with other product not foreseen;
- Never place spilled product into the original cans to be used;
- Keep away from children

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

**Product name** REF ROOT CONCEALER BLACK  
**Product number** 32437

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses** Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

**National emergency telephone number** 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram**

**Signal word** Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

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**SECTION 3: Composition/information on ingredients**

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**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.



## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF ROOT CONCEALER BROWN**Product number** 32851**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.



**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF ROOT CONCEALER DARK BLONDE**Product number** 32434**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF ROOT CONCEALER LIGHT BROWN**Product number** 32431**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

---

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF ROOT TO TOP**Product number** 33056**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated



**Precautionary statements**

- P102 Keep out of reach of children.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

---

**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** REF 404 Rough Paste 150ml

**Supplier** Artec Chemical Co., Ltd.  
Room 1101, ONE MIDTOWN, 11 Hoi Shing Road,  
Tsuen Wan, N.T., Hong Kong

**Emergency Phone No.** +852-2543-2233  
**Fax No.** +852-2543-1883

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard** None

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

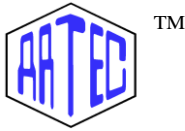
**Description** Mixture of substances listed below with nonhazardous additions

#### Ingredients

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
6440-58-0	229-222-8	-	Acute Tox. 4;	H302	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of soap and water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Special Hazard arising from the Substance or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Extinguishing Media

Suitable Extinguishing Media

Alcohol-resistant foam; Dry powder; Carbon dioxide; Sand or earth; Water spray

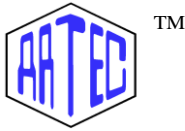
Unsuitable Extinguishing Media

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### Environmental Precautions

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank.

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### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.

#### Storage

Requirements for storage rooms and vessels

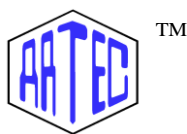
Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special precautions required.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight. Store preferably between 5 °C and 25 °C.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

#### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

#### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	white solid
Odour	Fragranced; characteristic
Freezing/Melting Point	No data available
Boiling Point	No data available
Flash Point	Not applicable



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Conditions to Avoid

Extremes of temperature; Direct sunlight;

#### Materials to Avoid

Product reacts with: Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50 (calculated value)	> 2,000 mg/kg
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This product possesses no known toxicological hazards when used as directed and all precautions followed.

#### Primary Irritating Potential

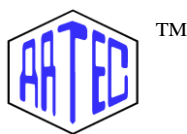
Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	No experimental evidence of sensitizing potential available.

#### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

### 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Quantitative data on the ecological effect of this product are not available.

#### **Persistence and Degradability**

No information available

#### **Bioaccumulative Potential**

No information available

#### **Mobility in Soil**

No information available

#### **Result of PBT and vPvB Assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### **Additional Ecological Information**

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.

### 13 DISPOSAL CONSIDERATIONS

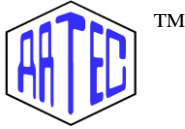
#### **Disposal Consideration**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None

Declaration (railroad and road)	ADR, RID	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration (transport by sea)	IMDG-Code	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration (transport by air)	IATA-DGR	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

Chemical safety assessment

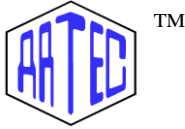
For this product chemical safety assessment not carried out.

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### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** REF505 ROUGH WAX

**Supplier** Artec Chemical Co., Ltd.  
Room 1101, ONE MIDTOWN, 11 Hoi Shing Road,  
Tsuen Wan, N.T., Hong Kong

**Emergency Phone No.** +852-2543-2233  
**Fax No.** +852-2543-1883

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard** None

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

**Description** Mixture of substances listed below with nonhazardous additions

#### Ingredients

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
6440-58-0	229-222-8	-	Acute Tox. 4;	H302	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

- General Advice** In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
- Eye Contact** Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
- Skin Contact** In case of accidental and excess application of the product, rinse with plenty of soap and water. Consult a dermatologist if irritation develops or persists.
- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
- Ingestion** Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
- Protection of First-aiders** A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Special Hazard arising from the Substance or Mixture

Combustible material.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Extinguishing Media

Suitable Extinguishing Media

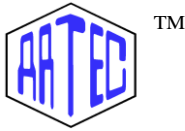
Alcohol-resistant foam; Dry powder; Carbon dioxide; Sand or earth; Water spray

Unsuitable Extinguishing Media

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### Environmental Precautions

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank.

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### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.

#### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

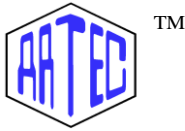
Advice on storage assembly

No special precautions required.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight. Store preferably between 5 °C and 25 °C.





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

#### General Protective and Hygiene Measures

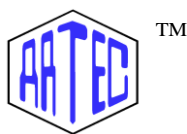
Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

#### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Grey waxy solid
Odour	Fragranced; characteristic
Freezing/Melting Point	No data available
Boiling Point	No data available
Flash Point	Not applicable



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Conditions to Avoid

Extremes of temperature; Direct sunlight;

#### Materials to Avoid

Product reacts with: Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50 (calculated value)	> 2,000 mg/kg
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This product possesses no known toxicological hazards when used as directed and all precautions followed.

#### Primary Irritating Potential

Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	No experimental evidence of sensitizing potential available.

#### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

### 12 ECOLOGICAL INFORMATION

#### Ecotoxicity

Quantitative data on the ecological effect of this product are not available.

#### Persistence and Degradability

No information available

#### Bioaccumulative Potential

No information available

#### Mobility in Soil

No information available

#### Result of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### Additional Ecological Information

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.

### 13 DISPOSAL CONSIDERATIONS

#### Disposal Consideration

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None

Declaration ADR, RID (railroad and road)	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IMDG-Code (transport by sea)	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IATA-DGR (transport by air)	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

Chemical safety assessment

For this product chemical safety assessment not carried out.

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### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** REF433 Sculpting Gel 150ml

**Supplier** Artec Chemical Co., Ltd.  
Room 1101, ONE MIDTOWN, 11 Hoi Shing Road,  
Tsuen Wan, N.T., Hong Kong

**Emergency Phone No.** +852-2543-2233  
**Fax No.** +852-2543-1883

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard** None

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

**Description** Mixture of substances listed below with nonhazardous additions

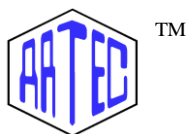
#### Components

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

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### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Extinguishing Media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special Hazards arising from the Substances or Mixture

Non-combustible material.

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Spills must not be flushed direct to sewer except with the express permission of local regulatory authorities.

#### Environmental Precautions

Prevent from entry into open streams or sewers.

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### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.

#### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special precautions required.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight and freezing. Store preferably between 5 °C and 25 °C.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

#### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

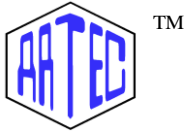
#### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Colour	White
Odour	Fragranced; pleasant
Freezing/Melting Point	No data available
Boiling Point	No data available
Flash Point	> 100 °C





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Conditions to Avoid

High temperature;

#### Materials to Avoid

Product reacts with: Strong acids; Strong alkalis; Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50 (calculated value)	> 2,000 mg/kg
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This product possesses no known toxicological hazards when used as directed and all precautions followed.

#### Primary Irritating Potential

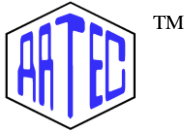
Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	Skin sensitization is considered to be unlikely.

#### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

---

### 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Quantitative data on the ecological effect of this product are not available.

#### **Persistence and Degradability**

No information available

#### **Bioaccumulative Potential**

No information available

#### **Mobility in Soil**

No information available

#### **Result of PBT and vPvB Assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### **Additional Ecological Information**

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.

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### 13 DISPOSAL CONSIDERATIONS

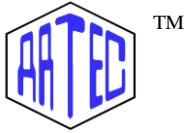
#### **Disposal Consideration**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

---

### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None
Declaration ADR, RID (railroad and road)	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IMDG-Code (transport by sea)	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration IATA-DGR (transport by air)	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

Chemical safety assessment

For this product chemical safety assessment not carried out.

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### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.

**Cosmetic product data sheet for professional use**

***HAIR SHAMPOO***

**Edition date:** 05/06/2018

**Revision date:** -----

**1. IDENTIFICATION OF THE SUBSTANCE /PREPARATION  
AND THE COMPANY**

**GENERAL INFORMATION :**

**Product name:**

Ultimate Repair Shampo 60 ml  
Ultimate Repair Shampoo 285 ml  
Ultimate Repair Shampoo 750 ml  
Ultimate Repair shampoo 2l  
Weightless Volume Shampoo 60ml  
Weightless Volume Shampoo 285ml  
Weightless Volume Shampoo 750ml  
Weightless Volume Shampoo 2 l  
Intense Hydrate Shampoo 60  
Intense Hydrate Shampoo 285 ml  
Intense Hydrate Shampoo 750ml  
Intense Hydrate Shampoo 2 l  
Illuminate Colour Shampoo 60 ml  
Illuminate Colour Shampoo 285 ml  
Illuminate Colour Shampoo 750ml  
Illuminate Colour Shampoo 2 l  
Hair and Body Shampoo 285 ml  
Hair and Body Shampoo 750ml  
Cool Silver Shampoo 285 ml  
Cool Silver Shampoo 750ml

**Classification:** Shampoo

**Company Identification :** **Pool Service S.r.l.**  
Via Siracusa 8  
21050 Bolladello di Cairate (Va) +39 0331 311399

**For further information about this product please call : +39.0331.311399**

## **2. COMPOSITION / INFORMATION ON INGREDIENTS :**

**Product description:** association of anionics and/or amphoteric surface-active agents in water solution, in case opacified and viscous.

### 3. HAZARDS IDENTIFICATION

**Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY** : Not inflammable product.

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear disposable gloves, masks.

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

Keep away from strong oxidizer substances.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 Dl.Lgs. 81/08):

- Wear suitable clean clothing
- **Respiratory protection** : not required
- **Hand protection** : suitable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :** liquid, cream  
**Odor:** characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** no reaction with the other compound ingredients



## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATIONS ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

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### Information concerning

**Sanitary warning :** Do no use on irritated scalp or affected by pathologies.  
As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary sensitivity test.

### Instructions for use:

- Follow the instructions on the product or on the annexed sheet;
- Avoid any other use not foreseen in the instructions;
- Avoid to mix with other products.
- Never place spilled product into the original cans to be used;
- Keep away from children

### Warning:

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF SHINE SPRAY**Product number** 33061**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

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**SECTION 3: Composition/information on ingredients**

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**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

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## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.



**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**Cosmetic product data sheet for professional use**

***REF SOFT COLOUR***

**Edition date :** 05/06/2018

**Revision date :** -----

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION  
AND THE COMPANY**

**Commercial name :** REF SOFT COLOUR 50 ML

**Classification :** Hair dye

**Company Identification :** Pool Service S.r.l.  
Via Siracusa 8  
21050 Bolladello di Cairate (Va)

**For further information about this product please call : +39.331.311399**

## **2. COMPOSITION /INFORMATION ON INGREDIENTS :**

### **Product description :**

Combination of synthetic dyes in different forms:  
( liquid, gel or cream ) in basic solution.  
At the time of use the product is mixed with  
hydrogen peroxide.

## **3. HAZARDS IDENTIFICATION :**

### **Information concerning:**

The continuous exposure for professional reasons to detergent agents as ( soap – shampoo – liquid detergents ) might cause a gradual impoverishment of the hydrolipidic mantle as well as the horny layer of epidermis.

The impoverishment of this barrier being more exposed towards external agents might be the cause of skin lesions.

In this conditions the manipulation of other substances, normally used during the practise of the profession done without the proper precautions may cause an allergy that in the long run could bring to more serious irritation forms.

## 4. FIRST AID MEASURES

### In case of eye contact:

- Irritant substance in case of eyes contact ; take contact lenses off if used , irrigate copiously with fresh water.  
If irritation persists consult a specialist.

### In case of skin contact:

- Wash immediately with plenty of water. If irritation persists seek medical attention.

### In case of ingestion :

- In case of ingestion of considerable quantity of product, please consult the nearest Anti – Poison Center.

### In case of inhalation:

- In case of inhalation move to fresh air . If irritation persists consult a doctor.

## 5. FIRE FIGHTING MEASURES

**INFLAMMABILITY :** Not inflammable product .

## 6. ACCIDENTAL RELEASE MEASURES

### In case of spilled :

Contain and collect spillages with sand and sawdust and place into appropriate waste containers ;  
Wash the area off with water ;  
Never place spilled material into original containers or use it.

### Personal Precautions :

- Wear appropriate protective gloves and mask .

## 7. HANDLING AND STORAGE

### Handling :

- See item 3

### Optimal storage conditions:

- Store in a dry and well ventilated place.
- Keep at a room temperature not below 5 ° C, far from flames, heat sources or electric devices in motion.

### Safe handling advice :

- Keep away from strong reducing substances as perms and straightenings.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

The employer is obliged to place some adequate individual protective measures at disposal of the employees (art. 76 D.Lgs. 81/08):

- Wear suitable clean clothing and gloves
- Avoid nickel tools
- Avoid to wear trinkets
- **Respiratory protection** : suitable mask
- **Hand protection** : disposable gloves
- **Eyes protection** : not required

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance :**

liquid, cream, gel

**Odor:**

characteristic

## 10. STABILITY AND REACTIVITY

**Stability :** stable under normal pressure and temperature  
**Reactivity :** reaction with the other compound ingredients

## 11. TOXICOLOGICAL INFORMATION

NONE

## 12. ECOLOGICAL INFORMATION

The working place should be well ventilated with air mechanical replacement see The rooms in which there could be vapour emission, gas, powder or spreading of substances should be separate and equipped with possible localized ventilation or collection systems (Title II del D.Lgs. 81/08).

## 13. DISPOSAL CONSIDERATION

As regards disposal of waste/unused products should be in accordance with local legislation – regional or national (D. Lgs. 152/2006).

## 14. TRANSPORT INFORMATION

NONE

## 15. INFORMATION ON CURRENT REGULATIONS

Labelling under regulation ( DLgs 126/97)

**INCI product list (CTFA):** see details on packaging

**Instructions for use to be compulsory declared :** reported on products

Read carefully all the components in the product , showed on the first and on the second packaging .

## 16. OTHER INFORMATION

**This document doesn't replace the instructions for use .**

All the information contained in the present sheet are based on our own knowledge on the date reported on it.

The chemical – physical product features here reported aim only to describe the product related to safety and not as guarantee on any specific product property.

-----

The information here reported refer to the obtained mixture with : oxidation hair dye, tone on tone colouring cream, bleaching powder.

### **Sanitary warning:**

Do not use on the scalp if broken, irritated or affected by pathologies;

As the product may cause allergic reactions in very sensitive persons , we recommend carrying out a preliminary test as follows: clean a small area behind the ear, apply a small quantity of product for 2 or 3 times and let it dry. Wait 48 hours without washing . If local reddening , swelling or itching appears in the meantime, do not use the product.

It's up to the user decide if carry out a preliminary test or not.

Attention: the final product may generate hydrogen peroxide.

### **Instructions for use:**

- Follow the instructions on the product or on the annexed sheet;
- Do not use to dye eyelashes and eyebrows;
- Do not make a perm immediately after or before a dye;
- Rinse one's hair well after application;
- Do not use on hair previously treated with metallic dyes;
- Follow the recommended sitting time;
- Rinse immediately any rest of colouring mixture from skin or clothes ;
- Use the colouring mixture as soon as ready;
- Throw any unused colouring mixture;
- Do not leave the colouring mixture in a hermetically sealed container as it might swell and explode;
- Keep away from the reach of children ;

### **Warning:**

The Hairdresser is obliged to inform the user about the contraindications and/or the allergic reactions above mentioned.



**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF SPRAYWAX**Product number** 33063**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

- P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

---

**SECTION 3: Composition/information on ingredients**

---

**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

---

**SECTION 4: First aid measures**

---

**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -

## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

---

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

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**SECTION 16: Other information**

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**General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

<b>Product Name</b>	<b>REF Stay Smooth</b>
<b>Supplier</b>	Artec Chemical Co., Ltd. Room 1101, ONE MIDTOWN, 11 Hoi Shing Road, Tsuen Wan, N.T., Hong Kong
<b>Emergency Phone No.</b>	+852-2543-2233
<b>Fax No.</b>	+852-2543-1883

---

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard**                      None





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

**Description** Mixture of substances listed below with nonhazardous additions

#### Components

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

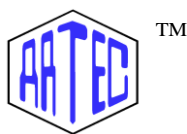
Sodium N-(hydroxymethyl)glycinate

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
70161-44-3	274-357-8		Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Extinguishing Media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

#### Special Hazards arising from the Substances or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.

---

### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Spills must not be flushed direct to sewer except with the express permission of local regulatory authorities.

#### Environmental Precautions

Prevent from entry into open streams or sewers.

---

### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### Storage

Requirements for storage rooms and vessels

Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special restrictions on storage with other products.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight and freezing. Store preferably between 5 °C and 25 °C.

---

## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	white cream
<b>Odour</b>	Fragranced; pleasant
<b>Freezing/Melting Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	> 100 °C

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Reactivity

No information available

#### Conditions to Avoid

High temperature;

#### Materials to Avoid

Product reacts with: Strong acids; Strong alkalis; Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

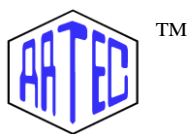
### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50	> 2,000 mg/kg
	(calculated value)	

This product possesses no known toxicological hazards when used as directed and all precautions followed.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### Primary Irritating Potential

Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	Skin sensitization is considered to be unlikely.

### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

---

## 12 ECOLOGICAL INFORMATION

### Ecotoxicity

Quantitative data on the ecological effect of this product are not available.

### Persistence and Degradability

No information available

### Bioaccumulative Potential

No information available

### Mobility in Soil

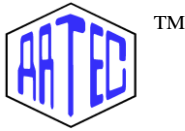
No information available

### Result of PBT and vPvB Assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### Additional Ecological Information

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 13 DISPOSAL CONSIDERATIONS

#### Disposal Consideration

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

### 14 TRANSPORT REGULATIONS

UN Number                      Not assigned  
Packing Group                 None

Declaration    ADR, RID      No restrictions on land shipment  
(railroad and road)      Not classified as dangerous in the meaning of transport regulations.  
Declaration    IMDG-Code      No restrictions on sea shipment  
(transport by sea)      Not classified as dangerous in the meaning of transport regulations.  
Declaration    IATA-DGR      No restrictions on air shipment according to  
(transport by air)      IATA Dangerous Goods Regulation (DGR) 58th Edition 2017  
Not classified as dangerous in the meaning of transport regulations.

### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances  
Legislation                      Directive 96/82/EC does not apply

Storage class VCI                10 - 13

#### Chemical safety assessment

For this product chemical safety assessment not carried out.

### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product Name** REF 534 Styling Wax 85ml

**Supplier** Artec Chemical Co., Ltd.  
Room 1101, ONE MIDTOWN, 11 Hoi Shing Road,  
Tsuen Wan, N.T., Hong Kong

**Emergency Phone No.** +852-2543-2233  
**Fax No.** +852-2543-1883

### 2 HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

#### Label Elements

Labelling (Regulations (EC) No 1272/2008)

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

**Other Hazard** None

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Chemical Characterization Mixtures

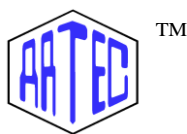
**Description** Mixture of substances listed below with nonhazardous additions

#### Ingredients

Chemical Name

2-phenoxyethanol

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
122-99-6	204-589-7	603-098-00-9	Acute Tox. 4; Eye Irrit. 2;	H302 H319	0.1 - 1.0%



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

1,3-bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione

CAS No.	EC No.	Index No.	Classification Code	Hazard Code	Concentration
6440-58-0	229-222-8	-	Acute Tox. 4;	H302	0.1 - 1.0%

The remaining components present in less than 1% concentration do not contribute any significant additional hazards.

### 4 FIRST AID MEASURES

<b>General Advice</b>	In case of persisting adverse effects, consult a physician. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	Rinse out with plenty of water with eyelid held wide open. Continue flushing for several minutes until all contaminants are washed off completely. If eye irritation persists, consult an ophthalmologist.
<b>Skin Contact</b>	In case of accidental and excess application of the product, rinse with plenty of soap and water. Consult a dermatologist if irritation develops or persists.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if inhalation causes eye watering, headaches, dizziness or other discomfort.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Make victim drink water (two glasses at the most). Consult doctor if feeling unwell.
<b>Protection of First-aiders</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5 FIRE-FIGHTING MEASURES

#### General Information

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place.

#### Special Hazard arising from the Substance or Mixture

Development of hazardous combustion gases or vapours possible in the event of fire.

#### Extinguishing Media

Suitable Extinguishing Media

Alcohol-resistant foam; Dry powder; Carbon dioxide; Sand or earth; Water spray

Unsuitable Extinguishing Media

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

#### Environmental Precaution

Contain and collect fire fighting water for later disposal if possible.





# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 6 ACCIDENTAL RELEASE MEASURES

#### Personal Precautions

Refer to protective measures listed in sections 7 and 8. Evacuate the danger area. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

#### Methods for Cleaning up

Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

#### Environmental Precautions

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank.

---

### 7 HANDLING AND STORAGE

#### Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

Advice on protection against fire and explosion

Avoid formation of vapours, mist or gas. Keep away from sources of heat and ignition. Normal room ventilation is expected to be adequate for routine handling of this product.

#### Storage

Requirements for storage rooms and vessels

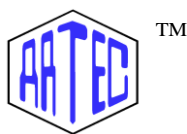
Store in original container in secure area inaccessible to children.

Advice on storage assembly

No special precautions required.

Further information on storage conditions

Keep container tightly closed in a cool, dry and well-ventilated place. Protect from direct sunlight. Store preferably between 5 °C and 25 °C.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Engineering Control

No special engineering controls required. However, under industrial applications, provide sufficient ventilations keep airborne levels to the lowest possible levels. Where vapours or mists are generated and exposure standards are exceeded, the use of respiratory protection, or a local exhaust ventilation system is recommended.

#### General Protective and Hygiene Measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

#### Personal Protection Equipment

Eye Protection	Not required under normal conditions of use. However, avoid eye contact.
Industrial application	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin Protection	Not required under normal conditions of use.
Industrial application	Suitable impervious protective clothing. Final choice is dependent on individual circumstances.
Hand Protection	Not required under normal conditions of use.
Industrial application	Handle with gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Respirators	Not required under normal conditions of use.
Industrial application	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	white solid
Odour	Fragranced; characteristic
Freezing/Melting Point	No data available
Boiling Point	No data available
Flash Point	Not applicable



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

### 10 STABILITY AND REACTIVITY

#### Chemical Stability

The product is chemically stable under standard ambient conditions.

#### Conditions to Avoid

Extremes of temperature; Direct sunlight;

#### Materials to Avoid

Product reacts with: Strong oxidizing agents;

#### Hazardous Decomposition Products

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); unidentified organic compounds may also be released.

### 11 TOXICOLOGICAL INFORMATION

This product has not been tested on animals to obtain toxicology data. There are toxicology data for the components of the product, which are found in scientific literature. These data have not been presented in this document.

#### Acute Toxicity

Acute oral toxicity	LD50 (calculated value)	> 2,000 mg/kg
---------------------	----------------------------	---------------

This product possesses no known toxicological hazards when used as directed and all precautions followed.

#### Primary Irritating Potential

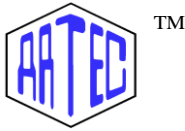
Skin corrosion/irritation	Not irritating to skin. Prolonged contact may cause mild irritation to individuals with very sensitive skin.
Serious eye damage/irritation	Corrosive or irritation effects are unlikely; None of the ingredients at 1% or more is classified with respect to corrosivity or irritation.
Respiratory or skin sensitization	No experimental evidence of sensitizing potential available.

#### Specific Target Organ Toxicity - Single Exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

#### Specific Target Organ Toxicity - Repeated Exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

<b>Mutagenicity</b>	No experimental evidence of mutagenicity available.
<b>Carcinogenicity</b>	No experimental evidence of carcinogenicity available.
<b>Teratogenicity</b>	No experimental evidence of teratogenicity available.
<b>Reproductive Toxicity</b>	No experimental evidence of reproductive toxicity available.

---

### 12 ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Quantitative data on the ecological effect of this product are not available.

#### **Persistence and Degradability**

No information available

#### **Bioaccumulative Potential**

No information available

#### **Mobility in Soil**

No information available

#### **Result of PBT and vPvB Assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

#### **Additional Ecological Information**

No quantitative data concerning the ecological effects available for this product. Prevent large quantities of this material from entering waterways.

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### 13 DISPOSAL CONSIDERATIONS

#### **Disposal Consideration**

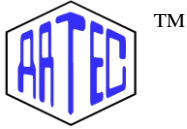
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

---

### 14 TRANSPORT REGULATIONS

UN Number	Not assigned
Packing Group	None

Declaration (railroad and road)	ADR, RID	No restrictions on land shipment Not classified as dangerous in the meaning of transport regulations.
Declaration (transport by sea)	IMDG-Code	No restrictions on sea shipment Not classified as dangerous in the meaning of transport regulations.
Declaration (transport by air)	IATA-DGR	No restrictions on air shipment according to IATA Dangerous Goods Regulation (DGR) 58th Edition 2017 Not classified as dangerous in the meaning of transport regulations.



# ARTEC CHEMICAL CO., LTD.

## Material Safety Data Sheet

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### 15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Legislation Directive 96/82/EC does not apply

Storage class VCI 10 - 13

Chemical safety assessment

For this product chemical safety assessment not carried out.

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### 16 OTHER INFORMATION

#### Disclaimer

The information provided in this material safety data sheet is correct to the best of our knowledge. No warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Artec Chemical Co., Ltd. assumed no responsibility for any personal injury or property damage caused by the materials. Users assume all risks associated with the use of the materials.

**SAFETY INFORMATION****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier****Product name** REF THICKENING SPRAY**Product number** 33055**1.2. Relevant identified uses of the substance or mixture and uses advised against****Identified uses** Hairstyling product**1.3. Details of the supplier****REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/**1.4. Emergency telephone number****National emergency  
telephone number** 112 or 999**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 1 - H222, H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

Please note that cosmetic aerosols are exempt from regulation CLP 1272/2008. The requirements of the Aerosol Dispensers Directive (ADD) 75/324/EEC do apply to this product. In addition to the H and P statements specified in this section, there are additional labeling requirements in 75/324/EEC.

**Human health**

Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache, Fatigue, Dizziness, Nausea, vomiting.

**Physicochemical**

Extremely flammable. Pressure chamber may explode in the event of fire.

**2.2. Label elements****Pictogram****Signal word** Danger**Hazard statements**H222 Extremely flammable aerosol.  
H229 Pressurised container: may burst if heated

**Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

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**SECTION 3: Composition/information on ingredients**

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**3.1. Mixtures**

For information on composition of this product, please see the INCI-list on the product.

For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging.

For further information please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

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**SECTION 4: First aid measures**

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**4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed****General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

No specific recommendations.

---

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

### **5.2. Special hazards arising from the substance or mixture**

#### **Specific hazards**

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up. Extremely flammable aerosol.

### **5.3. Advice for firefighters**

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

#### **Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

### **6.3. Methods and material for containment and cleaning up**

#### **Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

### **6.4. Reference to other sections**

#### **Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

### **7.2. Conditions for safe storage, including any incompatibilities**

#### **Storage precautions**

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store in tightly closed, original container in a dry, cool and well ventilated place.

### **7.3. Specific end use(s)**

#### **Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits** -



## **8.2. Exposure controls**

### **Eye/face protection**

Eye protection is normally not needed.

### **Hand protection**

Hand protection not required.

### **Hygiene measures**

When using do not eat, drink or smoke.

### **Respiratory protection**

Respiratory protection is not needed.

---

## **SECTION 9: Physical and Chemical Properties**

### **9.1. Information on basic physical and chemical properties**

#### **Appearance**

Aerosol.

#### **Odour**

Characteristic.

#### **Flash point**

Technical impossibility to obtain the data.

#### **Relative density**

~0.5-1

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

Not relevant.

#### **Volatile organic compound**

No information required.

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

#### **12.1. Toxicity**

No data is available regarding the preparation itself.

#### **12.2. Persistence and degradability**

##### **Persistence and degradability**

There are no data on the degradability of this product.

#### **12.3. Bioaccumulative potential**

No data available on bioaccumulation.

#### **12.4. Mobility in soil**

##### **Mobility**

No information available

#### **12.5. Results of PBT and vPvB assessment**

This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

#### **Disposal methods**

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non-empty containers should be taken care of as hazardous waste according to local and national regulations.

#### **Waste class**

Non empty containers: EWC code 14 06 03\*

Empty containers: EWC code 15 01 04.

## SECTION 14: Transport information

**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

### 14.3. Transport hazard class(es)

ADR/RID class	2.1
ADR/RID classification code	5F
ADR/RID label	2.1
IMDG class	2.1
ICAO class/division	2.1
ADN class	2.1

### Transport labels



### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS	F-D, S-U
ADR transport category	2
Tunnel restriction code	(D)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: Other information****General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by** HS&E Manager.

**Hazard statements in full**

H222 Extremely flammable aerosol.

H229 Pressurised container: may burst if heated

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name REF WONDER OIL

Product number 33067

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Identified uses Hairstyling product

**1.3. Details of the supplier**

**REF International AB**  
**Linnégatan 78**  
**115 23 STOCKHOLM**  
SWEDEN  
Tel: +46 (0)8 663 19 88  
Fax: +46 (0)8 661 11 90  
email: info@refhair.com  
www.referencehaircare.com/

**1.4. Emergency telephone number**

National emergency telephone number 112 or 999

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not classified

**Health hazards**

Not classified

**Environmental hazards**

Not classified

-

**Classification (67/548/EEG) or (1999/45/EG)**

Not classified

**Human health**

Symptoms following overexposure may include the following: headache, fatigue, dizziness, nausea, vomiting.

**2.2. Label elements**

-

**2.3. Other hazards**

This product does not contain any substances classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients**

For information on composition of this product, please see the INCI-list on the product. For cosmetics and hygiene products, information about the product content and safe handling has to be indicated on the packaging. For further information, please see REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006, Article 2.6 b.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Get medical attention if any discomfort continues.

**Inhalation**

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

**Ingestion**

Drink a few glasses of water or milk.

**Skin contact**

Wash skin thoroughly with soap and water.

**Eye contact**

Rinse with water. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

**General information**

Solvent abuse can kill instantly.

**Inhalation**

Vapours may cause headache, fatigue, dizziness and nausea.

**Ingestion**

May cause nausea, headache, dizziness and intoxication.

**Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

**Eye contact**

May cause temporary eye irritation.

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

No specific recommendations.

---

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguish with foam, carbon dioxide or dry powder.

**5.2. Special hazards arising from the substance or mixture**

**Specific hazards**

Not applicable

**5.3. Advice for firefighters**

**Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

**Special protective equipment for firefighters**

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

---

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions**

For personal protection, see Section 8.

**6.2. Environmental precautions**

**Environmental precautions**

Avoid the spillage or runoff entering drains, sewers or watercourses.

**6.3. Methods and material for containment and cleaning up**

**Methods for cleaning up**

Large Spillages: Contain and absorb spillage with sand, earth or other non-combustible material. Small Spillages: Wipe away with paper or textile fabric.

**6.4. Reference to other sections**

**Reference to other sections**

For personal protection, see Section 8. For waste disposal, see section 13.

---

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Usage precautions**

Keep away from heat, sparks and open flame. Protect against direct sunlight.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage precautions**

Store in tightly closed, original container in a dry, cool and well ventilated place.

**7.3. Specific end use(s)**

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

---

**SECTION 8: Exposure Controls/personal protection**

**8.1. Control parameters**

**Occupational exposure limits** -

**8.2. Exposure controls**

**Eye/face protection**

Eye protection is normally not needed.

**Hand protection**

Hand protection not required.

**Hygiene measures**

When using do not eat, drink or smoke.

**Respiratory protection**

Respiratory protection is not needed.

---

**SECTION 9: Physical and Chemical Properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

Liquid.

**Colour**

Clear

**Odour**

Perfume.

**Flashpoint**

Not determined

**Solubility(ies)**

Soluble in water

**9.2. Other information**

**Other information**

Not applicable.

**Volatile organic compound**

No information required.

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

There are no known reactivity hazards associated with this product.

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures and when used as recommended.

### **10.3. Possibility of hazardous reactions**

Not known.

### **10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

### **10.5. Incompatible materials**

#### **Materials to avoid**

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### **10.6. Hazardous decomposition products**

No known hazardous decomposition products.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No data is available regarding the preparation itself.

-

#### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### **Ingestion**

May cause discomfort if swallowed.

#### **Skin contact**

Skin irritation should not occur when used as recommended. The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

#### **Eye contact**

May cause temporary eye irritation.

#### **Acute and chronic health hazards**

This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

## **SECTION 12: Ecological Information**

#### **Eco toxicity**

There are no data on the eco toxicity of this product.

### **12.1. Toxicity**

No data is available regarding the preparation itself.

### **12.2. Persistence and degradability**

#### **Persistence and degradability**

There are no data on the degradability of this product.

### **12.3. Bio accumulative potential**

No data available on bioaccumulation.

### **12.4. Mobility in soil**

#### **Mobility**

No information available

### **12.5. Results of PBT and vPvB assessment**



This product does not contain any substances classified as PBT or vPvB.

#### **12.6. Other adverse effects**

No information required.

### **SECTION 13: Disposal considerations**

#### **13.1. Waste treatment methods**

##### **General information**

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

##### **Disposal methods**

Re-use or re-cycle when possible. Dispose of waste according to local and national regulations.

Waste class        07 06 04\*

### **SECTION 14: Transport information**

**General**                                      This product is not classified as hazardous goods (IMDG, IATA, ADR/RID).

#### **14.1. UN-number**

UN No. (ADR/RID)                            -

UN No. (IMDG)                                -

UN No. (ICAO)                                -

UN No. (ADN)                                 -

#### **14.2. UN proper shipping name**

**Proper shipping name**                      Not hazardous  
(ADR/RID)

**Proper shipping name**                      Not hazardous  
(IMDG)

**Proper shipping name**                      Not hazardous  
(ICAO)

**Proper shipping name**                      Not hazardous  
(ADN)

#### **14.3. Transport hazard class(es)**

Not applicable

**ADR/RID class**

**IMDG class**

**ICAO class/division**

#### **14.4. Packing group**

Not applicable.

#### **14.5. Environmental hazards**

**Environmentally hazardous substance/marine pollutant** No

#### **14.6. Special precautions for user**

Not applicable

**EmS**

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable

---

**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

Regulation (EC) No 1223/2009 of the European Parliament and of the Council of 30 November 2009 on cosmetic products.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

---

**SECTION 16: Other information**

**General information**

This mixture is classified as a cosmetic product and not subject to any legal requirements for safety data sheet and its design.

**Issued by**

HS&E Manager.

**Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.