

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1	<b>Product</b>	<b>Affinage Infiniti Lite Blonde+ 500G</b>
1.2	<b>Proper shipping name</b>	Oxidizing Solid, Corrosive, N.O.S (Sodium Silicate, Ammonium Peroxydisulphate)
1.3	<b>Recommended use</b>	Hair Bleaching Powder (for cosmetic use)
1.4	<b>Supplier</b>	International Hair Cosmetics Group Pty Ltd / Affinage 14 India St (Cnr Tombo Street), Capalaba, QLD 4157 61 7 3823 4566 (Weekdays 9.00 am to 5.00 pm)
1.5	<b>Telephone number</b>	

**SECTION 2: HAZARDS IDENTIFICATION**

- 2.1 **Hazard classification and indication** UN 3085 Class 5.1 (8)  
**This 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.**

Oxidising solid, category 3	H272: May intensify fire; oxidiser.
Acute toxicity, category 4	H302: Harmful if swallowed.
Skin corrosion, category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318: Causes serious eye damage.
Specific target organ toxicity - single exposure, category 3	H335: May cause respiratory irritation.
Respiratory sensitization, category 1	H334: May cause allergy or asthma symptoms or breathing
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**

H272: May intensify fire; oxidiser.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H335: May cause respiratory irritation.  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317: May cause an allergic skin reaction.

**Precautionary statements**

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P220: Keep away from clothing and other combustible materials.  
P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
P264: Wash...thoroughly after handling.  
P280: Wear protective gloves / clothing and eye / face protection.  
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water (or shower).

P304 + P340: IF INHALED: remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338: IN 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 / doctor / ...

**Contains:** DISODIUM METASILICATE  
SODIUM SILICATE  
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

**3.2 Mixtures**

Contains:

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

Chemical Name/Identification	CAS	x = Conc. %	Classification 1272/2008 (CLP)
<b>Dipotassium Peroxodisulphate</b> EC 231-781-8 INDEX 016-061-00-1 Reg.No. 01-2119495676-19-0000	7727-21-1	25 ≤ x < 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
<b>Sodium Silicate</b> EC 215-687-4 INDEX - Reg.No. 01-2119448725-31-0011	1344-09-8	10 ≤ x < 25	Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335
<b>AMMONIUM PEROXYDISULPHATE</b> EC 231-786-5 INDEX 016-060-00-6 Reg.No. 01-2119495973-19-0000	7727-54-0	5 ≤ x < 10	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
<b>DISODIUM METASILICATE</b> EC 229-912-9 INDEX 014-010-00-8 Reg.No. 01-2119449811-37-xxxx	6834-92-0	5 ≤ x < 10	Met. Corr. 1 H290, Skin Corr. 1B H314, STOT SE 3 H335

**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: FIRE FIGHTING MEASURES****5.1 Suitable Extinguishing Media**

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 Media**

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 Fire fighters - 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.

SAFETY DATA SHEET

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.
- 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: 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 Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers 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**

## SAFETY DATA SHEET

**Predicted no-effect concentration - PNEC**

Normal value in fresh water	7.5mg/l
Normal value for marine water sediment	1 mg/l
Normal value for water, intermittent release	7.5mg/l
Normal value of STP microorganisms	348mg/l

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

Route of Exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers 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

**AMMONIUM PEROXYDISULPHATE****Threshold Limited Value**

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm
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 Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers 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

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

Route of Exposure	Effects on consumers Acute local	Acute systemic	Chronic local	Chronic systemic	Effects on workers 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. 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.

<b>HAND PROTECTION</b>	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.
<b>SKIN PROTECTION</b>	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.
<b>EYE PROTECTION</b>	Wear airtight protective 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.
<b>RESPIRATORY PROTECTION</b>	Use a type P filtering facemask, whose class (1, 2 or 3) and effective need, must be defined according to the outcome of risk assessment (see standard EN 149).
<b>ENVIRONMENTAL EXPOSURE CONTROLS</b>	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**

<b>Appearance</b>	Powder
<b>Colour</b>	Blue
<b>Odour</b>	Characteristic
<b>Odour threshold</b>	Not available.
<b>pH</b>	10.5 - 11.5
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point</b>	Not available.
<b>Boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Lower inflammability limit</b>	Not available.
<b>Upper inflammability limit</b>	Not available.
<b>Lower explosive limit</b>	Not available.
<b>Upper explosive limit</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility</b>	Not available.
<b>Partition coefficient: n-octanol/water</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Explosive properties</b>	Not available.
<b>Oxidising properties</b>	Not available.

**9.2 Other information**

Information not available

**SECTION 10: STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	There are no particular risks of reaction with other substances in normal conditions of use. DISODIUM METASILICATE The aqueous solutions act as: strong bases.
<b>10.2 Chemical stability</b>	The product is stable in normal conditions of use and storage.
<b>10.3 Possibility of hazardous reactions</b>	The powders are potentially explosive when mixed with air. DISODIUM METASILICATE May react dangerously with: fluorine, lithium.
<b>10.4 Conditions to avoid</b>	Avoid environmental dust build-up.
<b>10.5 Incompatible materials</b>	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.
<b>10.6 Hazardous decomposition products</b>	Information not available.

**SECTION 11: TOXICOLOGICAL INFORMATION****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: Not classified (no significant component)

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

LD50 (Oral) of the mixture: 1187 mg/kg

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

**SODIUM SILICATE**

3400 mg/kg

LD50 (Oral)

> 5000 mg/kg

LD50 (Dermal)

> 2.06 g/m<sup>3</sup>

LC50 (Inhalation)

**DIPOTASSIUM PEROXODISULPHATE**

1130 mg/kg

LD50 (Oral)

> 10000 mg/kg

LD50 (Dermal)

> 42.9 mg/l

LC50 (Inhalation)

**DISODIUM METASILICATE**

1152 mg/kg bw

LD50 (Oral)

> 5000 mg/kg bw

LD50 (Dermal)

> 2.06 g/m<sup>3</sup>

LC50 (Inhalation)

**AMMONIUM PEROXYDISULPHATE**

272mg/kg

LD50 (Oral)

> 2000 mg/kg

LD50 (Dermal)

> 5.1 mg/l/4h

LC50 (Inhalation)

**SKIN CORROSION / IRRITATION**

Corrosive for the skin

**SERIOUS EYE DAMAGE / IRRITATION**

Causes serious eye damage

**RESPIRATORY OR SKIN SENSITISATION**

Sensitising for the skin. Sensitising for the respiratory system.

**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**

<b>SODIUM SILICATE</b>	
LC50 - for fish	1108 mg/l/96h (Brachydanio rerio)
EC50 - for crustacea	1700 mg/l/48h (Daphnia magna)
<b>DIPOTASSIUM PEROXODISULPHATE</b>	
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
<b>DISODIUM METASILICATE</b>	
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)
<b>AMMONIUM PEROXYDISULPHATE</b>	
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
EC10 - for Algae / Aquatic Plants	36 mg/l/72h Pseudomonas putida

**12.2 Persistence and degradability**

<b>DIPOTASSIUM PEROXODISULPHATE</b>	Rapidly biodegradable
<b>DISODIUM METASILICATE</b>	
Solubility in water	210000 mg/l
Biodegradability	Information not available.
<b>AMMONIUM PEROXYDISULPHATE</b>	
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 Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14: TRANSPORT INFORMATION**

<b>14.1 UN number</b>	ADR / RID, IMDG, IATA:	3085
<b>14.2 UN Proper shipping name</b>	ADR / RID, IMDG, IATA:	OXIDIZING SOLID, CORROSIVE, N.O.S.
<b>14.3 Transport hazard class(s)</b>	ADR / RID, IMDG, IATA:	CLASS: 5.1 LABEL: 5.1 (8)
		 
<b>14.4 Packing group</b>	ADR / RID, IMDG, IATA:	III
<b>14.5 Environmental hazards</b>		
<b>ADR / RID:</b>	NO	
<b>IMDG:</b>	NO	
<b>IATA:</b>	NO	
<b>14.6 Special precautions for user</b>		
<b>ADR / RID:</b>	HIN - Kemler: 58 Special Provision: -	Limited Quantities: 5 kg Tunnel restriction code: ( E )
<b>IMDG:</b>	EMS: F-A, S-Q	Limited Quantities: 5 kg
<b>IATA:</b>	Cargo: Pass: Special Instructions:	Maximum Quantity: 100 Kg Maximum Quantity: 25 Kg A3 Packaging Instructions: 563 Packaging Instructions: 559

**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 PEROXYDISULPHATE
		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

**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:**

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



## SAFETY DATA SHEET

<b>REACH</b>	EC Regulation 1907/2006
<b>RID</b>	Regulation concerning the international transport of dangerous goods by train
<b>TLV</b>	Threshold Limit Value
<b>TLV CEILING</b>	Concentration that should not be exceeded during any time of occupational exposure
<b>TWA STEL</b>	Short-term exposure limit
<b>TWA</b>	Time-weighted average exposure limit
<b>VOC</b>	Volatile organic Compounds
<b>vPvB</b>	Very Persistent and very Bioaccumulative as for REACH Regulation
<b>WGK</b>	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 Sanita) - Italy

**Issue Date:** 9th May 2017

**Version:** Version 1

### Note for Users:

The information contained in the present sheet is 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.

End of SDS