HG

# **SAFETY DATA SHEET**

HG professional limescale remover

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

1.1 Product identifier	
Product name	: HG professional limescale remover
Product code	: 100 AM USA
Product description	: Cleaner.
Product type	: Liquid.
Other means of identification	: Not available.

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Not applicable.

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

HG International BV Damsluisweg 70 - NL-1332 EJ - Almere - The Netherlands Tel.: +31 (0)36 54 94 700 - Fax: +31 (0)36 54 94 744 Email: info@hg.eu - Internet: www.hg.eu

e-mail address of person : safety@hg.eu responsible for this SDS

#### **National contact**

HG International B.V. Damsluisweg 70 - 1332 EJ Almere Tel.:+31 (0)36 54 94 700 - Fax:+31 (0)36 54 94 744 - info@hg.eu

#### 1.4 Emergency telephone number

National advisory body/Poison CenterTelephone number:SupplierTelephone number: +31 (0)36 54 94 777Hours of operation: Mo-Fr 9.00-17.00Information limitations: Only for medical personnel.

## **SECTION 2: Hazards identification**

2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318	Regulation (EC) No. 1272/2008 [CLP/GHS]
The product is classified as h	nazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	<ul> <li>3,5 percent of the mixture consists of component(s) of unknown oral toxicity</li> <li>3,5 percent of the mixture consists of component(s) of unknown dermal toxicity</li> <li>5,6 percent of the mixture consists of component(s) of unknown inhalation toxicity</li> </ul>
Ingredients of unknown ecotoxicity	: Contains 3,5 % of components with unknown hazards to the aquatic environment
See Section 16 for the full te	xt of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

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# **SECTION 2: Hazards identification**

2.2 Label elements		
Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	1	Harmful if swallowed. Causes severe skin burns and eye damage.
Precautionary statements		
General	:	If medical advice is needed, have product container or label at hand. Keep out of reach of children.
Prevention	:	Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection.
Response	:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Not applicable
Disposal	:	Not applicable
Hazardous ingredients	:	orthophosphoric acid oxalic acid Isotridecanol, ethoxylated
Supplemental label elements	:	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	its
Containers to be fitted with child-resistant fastenings	:	Yes, applicable.
Tactile warning of danger	:	Yes, applicable.
2.3 Other hazards		

Other hazards which do : None known. not result in classification

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

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
orthophosphoric acid	EC: 231-633-2 CAS: 7664-38-2	≥10 - <25	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	[1] [2]
oxalic acid	EC: 205-634-3 CAS: 144-62-7	<5	Acute Tox. 4, H312 Eye Dam. 1, H318	[1] [2]
propan-2-ol	REACH #: 01-2119457558-25 EC: 200-661-7	≥1 - <5	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[1]

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SECTION 3: Composition/information on ingredients				
Isotridecanol, ethoxylated	CAS: 67-63-0 Index: 603-117-00-0 EC: 500-241-6 CAS: 69011-36-5	≥1 - <5	Acute Tox. 4, H302 Eye Dam. 1, H318 See Section 16 for the full text of the H statements declared above.	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

Occupational exposure limits, if available, are listed in Section 8.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

Eye contact	:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	:	Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin contact	:	Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Get medical attention immediately. Call a poison center or physician. Remove dentures if any. Stop if the exposed person feels sick as vomiting may be dangerous. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
4 2 Most important sympton	ns a	nd effects, both acute and delayed

4.2 most important syn	inploins and checks, both acute and acityed
Over-exposure signs/	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.

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### **SECTION 4: First aid measures**

Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>
Specific treatments	: No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	:	Not applicable
Unsuitable extinguishing media	:	Not applicable
5.2 Special hazards arising f	from	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide phosphorus oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters		Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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

6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
6.2 Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	

#### 6.3 Methods and materials for containment and cleaning up

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#### SECTION 6: Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s) Recommendations

: For removing persistent limescale, rust stains, yellow stain deposits and copper oxide.

Industrial sector specific solutions

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

: Not available.

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

Occupational exposure limits

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

-	•	-		
Product/ingredient	name		Exposure limit values	3
orthophosphoric acid oxalic acid		occupational expos STEL: 2 mg/m³ 15 r TWA: 1 mg/m³ 8 ho	ninutes. urs. //2017). Notes: list of in ure limit values	
Recommended monitoring	If this product	Ģ		nal workplace
procedures	atmosphere or of the ventilation protective equi- the following: the assessment limit values and atmospheres - of exposure to (Workplace atte for the measure	biological monitoring n on or other control mea- pment. Reference sho European Standard EN at of exposure by inhala d measurement strateg Guide for the application chemical and biological mospheres - General re ement of chemical age	th exposure limits, perso nay be required to deterr sures and/or the necess uld be made to monitorin 689 (Workplace atmosp ation to chemical agents y) European Standard E on and use of procedure al agents) European Sta equirements for the perfor nts) Reference to natior nination of hazardous su	mine the effectiveness ity to use respiratory ng standards, such as pheres - Guidance for for comparison with EN 14042 (Workplace s for the assessment ndard EN 482 ormance of procedures nal guidance
DNELs/DMELs				
No DNELs/DMELs available.				
PNECs				
No PNECs available.				
8.2 Exposure controls				
Appropriate engineering controls	enclosures, lo	cal exhaust ventilation	es, gas, vapor or mist, u or other engineering con elow any recommended	trols to keep worker
Individual protection measure	<u>es</u>			
Hygiene measures	before eating, Appropriate te Wash contam	smoking and using the chniques should be use	oughly after handling che e lavatory and at the end ed to remove potentially reusing. Ensure that eye station location.	of the working period. contaminated clothing.
Eye/face protection	assessment ir gases or dust unless the ass goggles and/c	ndicates this is necessa s. If contact is possible sessment indicates a hi r face shield. If inhalat	proved standard should by to avoid exposure to l to the following protection gher degree of protectio ion hazards exist, a full-f nemical splash goggles.	liquid splashes, mists, n should be worn, n: chemical splash
Skin protection				
Hand protection	protective equ Protection fo For long-term 0.38mm (thick at least 480 m	ipment must be guarar r long-term use or subr use or submersion, use ness depends on type inutes, tested accordin		a thickness of at least a penetration time of
	For short-term thickness of a	i use (≤30 min) or splas t least 0.38mm (thickne	sh protection, use nitrile ess depends on type of g es, tested according to th	plove and quality), for a
	IMPORTANT:	in order to guarantee t	he safe use of gloves, th	e following has to be
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## **SECTION 8: Exposure controls/personal protection**

	considered when choosing suitable protective gloves: - The simultaneous use of other chemical products;
	<ul> <li>Necessary protection against physical risks like cutting, perforation or thermal hazards; and</li> </ul>
	- The manufacturer's instructions and/or specifications for the gloves.
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importar aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	1	Liquid.
Color	:	Colorless to light yellow.
Odor	1	Fragrance-like.
Odor threshold	1	Not available.
рН	1	<1 [Conc. (% w/w): 100%]
Melting point/freezing point	1	Not available.
Initial boiling point and boiling range	:	100°C
Flash point	:	Closed cup: 62°C [Product does not sustain combustion.]
Evaporation rate	1	Not available.
Flammability (solid, gas)	1	Not available.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	Not available.
Vapor density	:	Not available.
Relative density	:	1,135
Solubility(ies)	:	Not available.
Partition coefficient: n-octanol/ water	1	Not available.
Auto-ignition temperature	:	Not available.
Decomposition temperature	:	Not available.
Viscosity	:	Not available.
Explosive properties	:	Not available.
Oxidizing properties	1	Not available.
9.2 Other information		
Solubility in water	:	Not available.

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SECTION 10: Stability and reactivity				
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.		
10.2 Chemical stability	:	The product is stable.		
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.		
10.4 Conditions to avoid	:	Not applicable		
10.5 Incompatible materials	:	Attacks many metals producing extremely flammable hydrogen gas which can form explosive mixtures with air. Reactive or incompatible with the following materials: alkalis		
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		

# **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
orthophosphoric acid propan-2-ol	LD50 Oral LD50 Dermal LD50 Oral	Rat Rabbit Rat	1,25 g/kg 12800 mg/kg 5000 mg/kg	- -
Conclusion/Summary	: Not available.			

**Conclusion/Summary** 

## Acute toxicity estimates

Not available.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
oxalic acid	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
		Data		Micrograms	
	Eyes - Severe irritant	Rabbit	-	0,066666667 minutes 100	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	
propan-2-ol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
	Eyes - Moderate irritant	Rabbit		milligrams 10 milligrams	_
	Eyes - Severe irritant	Rabbit	-	100 miligrams	-
	,			milligrams	
	Skin - Mild irritant	Rabbit	-	500	-
				milligrams	
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
<b>Mutagenicity</b>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				

**Reproductive toxicity** 

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# **SECTION 11: Toxicological information**

**Conclusion/Summary** : Not available.

**Teratogenicity** 

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
propan-2-ol	Category 3	Not applicable.	Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely	: Not available.
routes of exposure	

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns.
Ingestion	: Harmful if swallowed.

Symptoms related to the	physical, chemical and	toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

#### Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
Not available.	
Conclusion/Summary	: Not available.
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.

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# **SECTION 11: Toxicological information**

Developmental effects Fertility effects : No known significant effects or critical hazards.

: No known significant effects or critical hazards.

#### Other information : Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
orthophosphoric acid	Acute EC50 105 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 60 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
oxalic acid	Acute EC50 136900 µg/l Fresh water	Daphnia - Daphnia magna -	48 hours
		Larvae	
propan-2-ol	Acute EC50 10100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/I Fresh water	Fish - Rasbora heteromorpha	96 hours
Conclusion/Summary	: Not available.	•	•

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
oxalic acid	-	>70 % - 28 days		-	-
Conclusion/Summary	: Not available.	•		•	·
Product/ingredient name	Aquatic half-life		Photolysis	5	Biodegradability
oxalic acid	-		-		Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
oxalic acid	-1,7		low
propan-2-ol	0,05		low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

# 12.5 Results of PBT and vPvB assessmentPBT: Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

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

**Product** 

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# **SECTION 13: Disposal considerations**

Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	UN1760	UN1760	UN1760	UN1760
14.2 UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Phosphoric acid, solution, mixture)	CORROSIVE LIQUID, N.O.S. mixture	CORROSIVE LIQUID, N.O.S. (Phosphoric acid, solution, mixture)	CORROSIVE LIQUID, N.O.S. (Phosphoric acid, solution, mixture)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	No.	No.	No.
Additional information         ADR/RID       : Hazard identification number 80         Limited quantity 5 L         Tunnel code (E)         IMDG       : Emergency schedules F-A, S-B				
<b>14.6 Special precautions for : Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.				
14.7 Transport in be according to Annex	ll of			

MARPOL and the IBC Code

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### SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

#### Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

#### **Other EU regulations**

#### Ozone depleting substances (1005/2009/EU)

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

#### **Seveso Directive**

This product is not controlled under the Seveso Directive.

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (Annexes A, B, C, E)

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

Date of issue/Date of revision

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## **SECTION 15: Regulatory information**

15.2 Chemical Safety	1	This product contains substances for which Chemical Safety Assessments are still
Assessment		required.

# **SECTION 16: Other information**

Indicates information that	at has changed from previously issued version.
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative</li> </ul>

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Corr. 1, H314	Expert judgment Expert judgment Expert judgment

#### Full text of abbreviated H statements

H225	Highly flammable liquid and vapor.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302		ACUTE TOXICITY (oral) - Category 4
Acute Tox. 4, H312		ACUTE TOXICITY (dermal) - Category 4
Eye Dam. 1, H318		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2, H319		SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 2, H225		FLAMMABLE LIQUIDS - Category 2
Met. Corr. 1, H290		CORROSIVE TO METALS - Category 1
Skin Corr. 1, H314		SKIN CORROSION/IRRITATION - Category 1
Skin Corr. 1B, H314		SKIN CORROSION/IRRITATION - Category 1B
STOT SE 3, H336		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
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Version	: 1

#### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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