



Nautical Degreaser (Desengrasante Nautico)
Code: 13/116

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

- 1.1 **PRODUCT IDENTIFIER:** Nautical Degreaser (Desengrasante Nautico)
Code: 13/116
- 1.2 **RELEVANT IDENTIFIED USES AND USES ADVISED AGAINST:**
Intended uses (main technical functions): Industrial Professional Consumers
 Grease remover.
Uses advised against:
This product is not recommended for any use or sector of use industrial, professional or consume other than those previously listed as 'Intended or identified uses'. If your use is not covered, please contact the supplier of this material safety data sheet.
Restrictions on manufacture, placing on market and use, according to Annex XVII of Regulation (EC) No. 1907/2006:
Not restricted.
- 1.3 **DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**
 NAUTIEL SERVICE, S.L.
 Pg. Joan de Borbó, 92 - 08003 Barcelona
 Phone: +34 93 2210869
E-mail address of the person responsible for the safety data sheet:
 nautiel-service@nautiel.com
- 1.4 **EMERGENCY TELEPHONE NUMBER:** +34 93 5880846 (9:00-13:00 / 15:00-18:00 h.) (working hours)

SECTION 2 : HAZARDS IDENTIFICATION

- 2.1 **CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:**
Classification in accordance with Directive 1999/45/EC~2006/8/EC (DPD):
 Xi:R36/38
- 2.2 **LABEL ELEMENTS:** Xi

This product is labelled as IRRITANT in accordance with Directive 67/548/EEC~2009/2/EC and 1999/45/EC~2006/8/EC

R-phrases:
 R36/38 Irritating to eyes and skin.
S-phrases:
 S2 Keep out of reach of children.
 S37 Wear suitable gloves.
 S46 If swallowed, seek medical advice immediately and show this container or label.
Supplementary statements:
 P153 Contains phosphonates < 5 %, anionic surfactants < 5 %, amphoteric surfactants < 5 %, non-ionic surfactants < 5 %, LIMONENE. Do not swallow.
Hazardous ingredients:
 None in a percentage equal to or higher than the limit for the name.

- 2.3 **OTHER HAZARDS:**
 Hazards which do not result in classification but which may contribute to the overall hazards of the mixture:
Other physicochemical hazards: *# No other relevant adverse effects are known.*
Other adverse human health effects: *# Prolonged exposure to vapours may produce transient drowsiness. In case of prolonged contact, the skin may become dry.*
Other negative environmental effects: *# Does not contain substances that fulfil the PBT criteria.*

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SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES:
Not applicable (mixture).

3.2 MIXTURES:
This product is a mixture.
Chemical description:
Solution of chemicals in aqueous media.
Hazardous ingredients:
Substances taking part in a percentage higher than the exemption limit:

<p>1 < 2,5 % </p>	<p>Disodium metasilicate pentahydrate CAS: 10213-79-3 , List No. 600-279-4 DSD: C:R34 Xi:R37 CLP: Met. Corr. 1:H290 Skin Corr. 1B:H314 Eye Dam. 1:H318 STOT SE (irrit.) 3:H335</p>	<p>Index No. 014-010-00-8 < ATP19 < CLP00</p>
<p>< 1 % </p>	<p>Potassium hydroxide CAS: 1310-58-3 , EC: 215-181-3 DSD: Xn:R22 C:R35 CLP: Met. Corr. 1:H290 Acute Tox. (oral) 4:H302 Skin Corr. 1A:H314</p>	<p>Index No. 019-002-00-8 < ATP25 < Autoclasificada</p>
<p>< 0,1 % </p>	<p>(R)-p-mentha-1,8-diene CAS: 5989-27-5 , EC: 227-813-5 DSD: R10 Xi:R38 R43* N:R50-53 CLP: Flam. Liq. 3:H226 Skin Irrit. 2:H315 Skin Sens. 1:H317 Asp. Tox. 1:H304 Aquatic Acute 1:H400 Aquatic Chronic 1:H410</p>	<p>Index No. 601-029-00-7 < ATP24 < Autoclasificada</p>

*Allergenic fragrance, in accordance with Directive 2003/15/EC.
Impurities:
Does not contain other components of impurities which will influence the classification of the product.

Reference to other sections:
For more information, see sections 8, 11, 12 and 16.

SUBSTANCES OF VERY HIGH CONCERN (SVHC):
List updated by ECHA on 20/06/2013.
Substances SVHC subject to authorisation, included in Annex XIV of Regulation (EC) no. 1907/2006:
None
Substances SVHC candidate to be included in Annex XIV of Regulation (EC) no. 1907/2006:
None

SECTION 4 : FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST-AID MEASURES AND MAIN SYMPTOMS AND EFFECTS, ACUTE AND DELAYED:

4.2 # *Symptoms may occur after exposure, so that in case of direct exposure to the product, when in doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Lifeguards should pay attention to self-protection and use the recommended protective equipment if there is a possibility of exposure. Wear protective gloves when administering first aid.*

Route of exposure	Symptoms and effects, acute and delayed	Description of first-aid measures
<u>Inhalation:</u>	Normally does not produce symptoms.	Remove the patient out of the contaminated area into the fresh air. If breathing is irregular or stops, administer artificial respiration. If the person is unconscious, place in appropriate recovery position. Keep the patient warm and at rest until medical attention arrives.
<u>Skin:</u>	Skin contact causes redness.	Remove immediately contaminated clothing. Wash thoroughly the affected area with plenty of cold or lukewarm water and neutral soap, or use a suitable skin cleanser.
<u>Eyes:</u>	Contact with the eyes produces redness and pain.	# <i>Rinse eyes copiously by irrigation with plenty of clean, fresh water for at least 15 minutes, holding the eyelids apart, until the irritation is reduced. Remove contact lenses. Call a physician immediately.</i>
<u>Ingestion:</u>	If swallowed, may cause irritation of the mouth, throat and esophagus.	If swallowed, seek medical advice immediately and show container or label. Do not induce vomiting, due to the risk of aspiration. Keep the patient at rest.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Notes to physician: Specific treatment is necessary in case of exposition with this substance: the appropriate means with instructions must be available. Damage caused by detergents and tensioactives to intestinal mucus is irreversible. Do not induce vomiting. Pump out stomach prior to the addition of dimeticone (antifrothing agent).
Antidotes and contraindications: # *Not available.*

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SECTION 5 : FIRE-FIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA:
Extinguishing powder or CO2. In the case of more important fires, also alcohol resistant foam and water spray/mist.
- 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:
As consequence of combustion or thermal decomposition, hazardous products may be produced: carbon monoxide, carbon dioxide, phosphorus oxides. Exposure to combustion or decomposition products may be a hazard to health.
- 5.3 ADVICE FOR FIREFIGHTERS:
Special protective equipment: # Depending on magnitude of fire, heat-proof protective clothing may be required, appropriate independent breathing apparatus, gloves, protective glasses or face masks and boots. If the fire-proof protective equipment is not available or not used, combat fire from a sheltered position or at a safe distance. The standard EN469 provides a basic level of protection for chemical incidents.
Other recommendations: Cool with water the tanks, cisterns or containers close to sources of heat or fire. Bear in mind the direction of the wind. Do not allow fire-fighting residue to enter drains, sewers or water courses.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:
Avoid direct contact with this product.
- 6.2 ENVIRONMENTAL PRECAUTIONS:
Avoid contamination of drains, surface or subterranean water and soil. In the case of large scale spills or when the product contaminates lakes, rivers or sewages, inform the appropriate authorities in accordance with local regulations.
- 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:
Contain and mop up spills with absorbent materials (sawdust, earth, sand, vermiculite, diatomaceous earth, etc.). Keep the remains in a closed container.
- 6.4 REFERENCE TO OTHER SECTIONS:
For contact information in case of emergency, see section 1.
For information on safe handling, see section 7.
For exposure controls and personal protection measures, see section 8.
For subsequent waste disposal, follow the recommendations in section 13.

SECTION 7 : HANDLING AND STORAGE

- 7.1 PRECAUTIONS FOR SAFE HANDLING:
Comply with the existing legislation on health and safety at work.
General recommendations:
Avoid any type of leakage or escape. Keep the container tightly closed.
Recommendations for the prevention of fire and explosion risks:
Not applicable.
Recommendations for the prevention of toxicological risks:
Do not eat, drink or smoke while handling. After handling, wash hands with soap and water. For exposure controls and personal protection measures, see section 8.
Recommendations for the prevention of environmental contamination:
It is not considered a danger to the environment. In the case of accidental spillage, follow the instructions indicated in section 6.
- 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:
Prevent unauthorized access. Keep out of reach of children. Keep away from sources of heat. If possible, avoid direct contact with sunlight. In order to avoid leakages, the containers, after use, should be closed carefully and placed in a vertical position. For more information, see section 10.
Class of store : According to current legislation.
Maximum storage period : 24. months
Temperature interval : min: 4. °C, max: 40. °C
Incompatible materials:
Keep away from oxidizing agents, acids.
Type of packaging:
According to current legislation.
Limit quantity (Seveso III): Directive 96/82/EC~2003/105/EC:
Not applicable.
- 7.3 SPECIFIC END USES:
For the use of this product do not exist particular recommendations apart from that already indicated.

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SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 **CONTROL PARAMETERS:**
If a product contains ingredients with exposure limits, may be necessary a personnel monitoring, work place or biological, to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to EN689 standard concerning methods for assessing the exposure by inhalation to chemical agents and national guidance documents for methods for the determination of dangerous substances.

OCCUPATIONAL EXPOSURE LIMIT VALUES (TLV)

AGCIH 2011	Year	TLV-TWA		TLV-STEL - Ceiling value		Observations
		ppm	mg/m3	ppm	mg/m3	
Potassium hydroxide (R)-p-mentha-1,8-diene	1977	-	-	-	2.0	Internal value
		290.	-	-	-	

TLV - Threshold Limit Value, TWA - Time Weighted Average, STEL - Short Term Exposure Limit.

BIOLOGICAL LIMIT VALUES:

Not available

DERIVED NO-EFFECT LEVEL (DNEL):

Derived no-effect level (DNEL) is a level of exposure that is considered safe, derived from toxicity data according to specific guidances included in REACH. DNEL values may differ from a occupational exposure limit (OEL) for the same chemical. OEL values may come recommended by a particular company, a government regulatory agency or an organization of experts. Although considered protective of health, the OEL values are derived by a process different of REACH.

<u>Derived no-effect level, workers:</u> - Systemic effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
	<u>Derived no-effect level, workers:</u> - Local effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -
<u>Derived no-effect level, general population:</u> - Systemic effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/kg bw/d -	<u>DNEL Oral</u> mg/kg bw/d -
	<u>Derived no-effect level, general population:</u> - Local effects, acute and chronic: Not available (without data of registration REACH).	<u>DNEL Inhalation</u> mg/m3 -	<u>DNEL Cutaneous</u> mg/cm2 -

PREDICTED NO-EFFECT CONCENTRATION (PNEC):

<u>Predicted no-effect concentration, aquatic organisms:</u> - Fresh water, marine water and intermitent release: Not available (without data of registration REACH).	<u>PNEC Fresh water</u> mg/l -	<u>PNEC Marine</u> mg/l -	<u>PNEC Intermittent</u> mg/l -
	- Wastewater treatment plants (STP) and sediments in fresh- and marine water: Not available (without data of registration REACH).	<u>PNEC STP</u> mg/l -	<u>PNEC Sediments</u> mg/kg dry weight -
<u>Predicted no-effect concentration, terrestrial organisms:</u> - Air, soil and effects for predators and humans: Not available (without data of registration REACH).	<u>PNEC Air</u> mg/m3 -	<u>PNEC Soil</u> mg/kg dry weight -	<u>PNEC Oral</u> mg/kg bw/d -



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8.2

EXPOSURE CONTROLS:

ENGINEERING MEASURES:



Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction.

Protection of respiratory system:

Protection of eyes and face: Dispose of water taps, sources or eyewash bottles with clean water close to the working area.

Protection of hands and skin: Barrier creams may help to protect the exposed areas of the skin. Barrier creams should not be applied once exposure has occurred.

OCUPATIONAL EXPOSURE CONTROLS: Directive 89/686/EEC~96/58/EC:

As a general measure on prevention and safety in the work place, we recommend the use of a basic personal protection equipment (PPE), with the corresponding EC marking. For more information on personal protective equipment (storage, use, cleaning, maintenance, type and characteristics of the PPE, protection class, marking, category, CEN norm, etc.), you should consult the informative brochures provided by the manufacturers of PPE.

Mask:

No.

Goggles:



Safety goggles with suitable lateral protection (EN166). Clean daily and disinfect at regular intervals in accordance with the instructions of the manufacturer.

Face shield:

No.

Gloves:



Gloves resistant against chemicals (EN374). When it can be a repeated or prolonged contact, it is recommended to use gloves with a protection level 5 or higher, with a breakthrough time >240 min. When you only expects a short contact, it is recommended to use gloves with a protection level 2 or higher, with a breakthrough time >30 min. The breakthrough time of the selected glove material should be in accordance with the pretended period of use. There are several factors (for example, temperature), they do in practice the period of use of a protective gloves resistant against chemicals is clearly lower than the established standard EN374. Due to the wide variety of circumstances and possibilities, we must have in mind the manual of instructions from manufacturers of gloves. Use the proper technique of removing gloves (without touching glove's outer surface) to avoid contact of the product with the skin. The gloves should be immediately replaced when any sign of degradation is noted.

Boots:

No.

Apron:

No.

Clothing:

Advisable.

Thermal hazards:

Not applicable.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid any spillage in the environment.

Spills on the soil: Prevent contamination of soil.

Spills in water: Do not allow to escape into drains, sewers or water courses.

Emissions to the atmosphere: Not applicable.

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SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:</p> <p><u>Appearance</u> - Physical state : Clear liquid. - Colour : Blue. - Odour : Characteristic - Odour threshold : Not available (mixture).</p> <p><u>pH-value</u> - pH : 11.5 ± 0.5 50 g/l at 20°C</p> <p><u>Change of state</u> - Melting point : Not available - Initial boiling point : > 100. °C at 760 mmHg</p> <p><u>Density</u> - Relative density : 1.03 at 20/4°C Relative water</p> <p><u>Stability</u> - Decomposition temperature : Not applicable</p> <p><u>Viscosity:</u> - Viscosity (flow time) : Not available</p> <p><u>Volatility:</u> - Vapour pressure : Not applicable - Vapour pressure : 12.3 kPa at 50°C</p> <p><u>Solubility(ies)</u> - Solubility in water: : # <i>Miscible</i> - Solubility in oils and fats: : Not available</p> <p><u>Flammability:</u> - Flash point : Not applicable - Upper/lower flammability or explosive limits : 1.1 - 13.6 % Volume 25°C - Autoignition temperature : Not applicable</p> <p><u>Explosive properties:</u> # <i>Not available.</i></p> <p><u>Oxidizing properties:</u> # <i>Not available.</i></p>
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9.2	<p>OTHER INFORMATION:</p> <p>- Surface tension : 76.8 din/cm at 20°C - Heat of combustion : # 132. Kcal/kg - Terpenic hydrocarbons : 0.1 % Weight - VOC (supply) : 19.8 g/l</p> <p>The values indicated do not always coincide with product specifications. The data for the product specifications can be found in the technical data sheet of the same. For additional information concerning physical and chemical properties related to safety and environment, see sections 7 and 12.</p>
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SECTION 10 : STABILITY AND REACTIVITY

10.1	<p><u>REACTIVITY:</u> Not available. <u>Corrosivity to metals:</u> # <i>It is not corrosive to metals.</i> <u>Pyrophorical properties:</u> # <i>It is not pyrophoric.</i></p>
10.2	<p><u>CHEMICAL STABILITY:</u> Stable under recommended storage and handling conditions.</p>
10.3	<p><u>POSSIBILITY OF HAZARDOUS REACTIONS:</u> Possible dangerous reaction with oxidizing agents, acids.</p>
10.4	<p><u>CONDITIONS TO AVOID:</u> <u>Heat:</u> Keep away from sources of heat. <u>Light:</u> If possible, avoid direct contact with sunlight. <u>Air:</u> Not applicable. <u>Pressure:</u> Not applicable. <u>Shock:</u> Not applicable.</p>
10.5	<p><u>INCOMPATIBLE MATERIALS:</u> Keep away from oxidizing agents, acids.</p>

10.6	<p><u>HAZARDOUS DECOMPOSITION PRODUCTS:</u> As consequence of thermal decomposition, hazardous products may be produced: phosphorus oxides.</p>
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SECTION 11 : TOXICOLOGICAL INFORMATION

No experimental toxicological data on the preparation is available. The toxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY:

Dose and lethal concentrations

for individual ingredients :

Disodium metasilicate pentahydrate
Potassium hydroxide
(R)-p-mentha-1,8-diene

DL50 (OECD 401)
mg/kg oral

1500. Rat
273. Rat
5600. Rat

DL50 (OECD 402)
mg/kg cutaneous

> 5000. Rat
> 2000. Rabbit

CL50 (OECD 403)
mg/m³.4h inhalation

> 2060. Rat

No observed adverse effect level

Not available

Lowest observed adverse effect level

Not available

CMR EFFECTS:

Carcinogenic effects: # *Is not considered as a carcinogenic product.*

Genotoxicity: # *Is not considered as a mutagenic product.*

Toxicity for reproduction: # *Do not harm fertility. Do not harm the fetus developing.*

Effects via lactation: # *Not classified as a hazardous product for children breast-fed.*

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

Routes of exposure: # *Not available.*

Short-term exposure: May irritate the eyes and skin. Irritating to eyes. Irritating to skin.

Long-term or repeated exposure: # *Not available.*

ADDITIONAL INFORMATION:

Not available.

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SECTION 12 : ECOLOGICAL INFORMATION

No experimental ecotoxicological data on the preparation as such is available. The ecotoxicological classification for these preparation has been carried out by using the conventional calculation method of the Directive 1999/45/EC~2006/8/EC.

12.1	TOXICITY:			
	<u>Acute toxicity in aquatic environment for individual ingredients :</u> Disodium metasilicate pentahydrate Potassium hydroxide (R)-p-mentha-1,8-diene	<u>CL50 (OECD 203)</u> mg/l.96hours 210. Fishes 80. Fishes 0.72 Fishes	<u>CE50 (OECD 202)</u> mg/l.48hours 1700. Daphnia 0.69 Daphnia	<u>CE50 (OECD 201)</u> mg/l.72hours 207. Algae 150. Algae
	<u>No observed effect concentration</u> Not available			
	<u>Lowest observed effect concentration</u> Not available			
12.2	PERSISTENCE AND DEGRADABILITY: <u>Biodegradability:</u> The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation 648/2004/EC on detergents: Ultimate aerobic biodegradation > 60% within 28 days. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request or at the request of a detergent manufacturer. <u>Photodegradability:</u> # Not available.			
12.3	BIOACCUMULATIVE POTENTIAL: Not available.			
12.4	MOBILITY IN SOIL: # Not available.			
12.5	RESULTS OF PBT AND MPMB ASSESMENT: Annex XIII of Regulation (EC) no. 1907/2006: # Not applicable.			
12.6	OTHER ADVERSE EFFECTS: <u>Ozone depletion potential:</u> # Not available. <u>Photochemical ozone creation potential:</u> # Not available. <u>Earth global warming potential:</u> # In case of fire or incineration liberates CO2. <u>Endocrine disrupting potential:</u> Not available.			

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	WASTE TREATMENT METHODS: Directive 2008/98/EC: Take all necessary measures to prevent the production of waste whenever possible. Analyse possible methods for revaluation or recycling. Do not discharge into drains or the environment, dispose of at an authorised waste collection point. Waste should be handled and disposed of in accordance with current local and national regulations. For exposure controls and personal protection measures, see section 8. <u>Disposal of empty containers:</u> Directive 94/62/EC~2005/20/EC, Decision 2000/532/EC: # Emptied containers and packaging should be disposed of in accordance with currently local and national regulations. The classification of packaging as hazardous waste will depend on the degree of emptying of the same, being the holder of the residue responsible for their classification, in accordance with Chapter 15 01 of Decision 2000/532/EC, and forwarding to the appropriate final destination. With contaminated containers and packaging, adopt the same measures as for the product in itself. <u>Procedures for neutralising or destroying the product:</u> Controlled incineration in special facilities for chemical waste, but in accordance with local regulations.
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SECTION 14 : TRANSPORT INFORMATION

14.1 UN NUMBER: Not applicable

14.2 UN PROPER SHIPPING NAME: Not applicable

14.3 TRANSPORT HAZARD CLASS(ES) AND PACKING GROUP:

14.4 Transport by road (ADR 2013):
Transport by rail (RID 2013):
Not reglamented

Transport by sea (IMDG 35-10):
Not reglamented

Transport by air (ICAO/IATA 2012):
Not reglamented

Transport by inland waterways (ADN):
Free.

14.5 ENVIRONMENTAL HAZARDS:
Not applicable (not classified as hazardous for the environment).

14.6 SPECIAL PRECAUTIONS FOR USER:
Ensure adequate ventilation.

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:
Not applicable.

SECTION 15 : REGULATORY INFORMATION

15.1 EU SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC:
The regulations applicable to this product generally are listed throughout this material safety data sheet.

Restrictions on manufacture, placing on market and use: See section 1.2

Control of the risks inherent in major accidents (Seveso III):See section 7.2

Tactile warning of danger:
Not applicable

Child safety protection:
Not applicable

OTHER REGULATIONS:
Not available

15.2 CHEMICAL SAFETY ASSESSMENT:
Not applicable (mixture).

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SECTION 16 : OTHER INFORMATION

- 16.1 [TEXT OF THE PHRASES AND NOTES REFERENCED IN SECTIONS 2 AND/OR 3:](#)
[R-phrases according the Directive 67/548/EEC~2001/59/EC \(DSD\), Annex III:](#)
 R10 Flammable. R22 Harmful if swallowed. R34 Causes burns. R35 Causes severe burns. R37 Irritating to respiratory system. R38 Irritating to skin. R43 May cause sensitization by skin contact. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
[Hazard statements according the Regulation \(EC\) No. 1272/2008~790/2009 \(CLP\), Annex III:](#)
 H226 Flammable liquid and vapour. H290 May be corrosive to metals. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.
- # [ADVICES ON ANY TRAINING APPROPRIATE FOR WORKERS:](#)
 # *It is recommended for all staff that will handle this product to carry out a basic training in occupational risk and prevention, in order to provide understanding and interpretation of material safety data sheets and labelling of products as well.*
- [MAIN LITERATURE REFERENCES AND SOURCES FOR DATA:](#)
- # · European Chemicals Agency: ECHA, <http://echa.europa.eu/>
 - # · Access to European Union Law, <http://eur-lex.europa.eu/>
 - European Chemicals Bureau: Existing Chemicals, <http://esis.jrc.ec.europa.eu/>
 - Industrial Solvents Handbook, Ibert Mellan (Noyes Data Co., 1970).
 - Threshold Limit Values, (AGCIH, 2011).
- # [ABBREVIATIONS AND ACRONYMS:](#)
 List of abbreviations and acronyms that can be used (but not necessarily used) in this material safety data sheet:
- # · REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
 - # · DSD: Dangerous Substances Directive.
 - # · DPD: Dangerous Preparations Directive.
 - # · GHS: Globally Harmonized System of Classification and Labelling of Chemicals of the United Nations.
 - # · CLP: European regulation on Classification, Labelling and Packaging of substances and chemical mixtures.
 - # · EINECS: European Inventory of Existing Commercial Chemical Substances.
 - # · ELINCS: European List of Notified Chemical Substances.
 - # · CAS: Chemical Abstracts Service (Division of the American Chemical Society).
 - # · UVCB: Substances of Unknown or Variable composition, complex reaction products or biological materials).
 - # · SVHC: Substances of Very High Concern.
 - # · PBT: Persistent, bioaccumulable and toxic substances.
 - # · vPvB: Very persistent and very bioaccumulable substances.
 - # · VOC: Volatile Organic Compounds.
 - # · DNEL: Derived No-Effect Level (REACH).
 - # · PNEC: Predicted No-Effect Concentration (REACH).
 - # · LD50: Letal dose, 50 percent.
 - # · LC50: Letal concentration, 50 percent.
 - # · UN: United Nations Organisation.
 - # · ADR: European agreement concerning the international carriage of dangerous goods by road.
 - # · RID: Regulations concerning the international transport of dangerous goods by rail.
 - # · IMDG: International Maritime code for Dangerous Goods.
 - # · IATA: International Air Transport Association.
 - # · ICAO: International Civil Aviation Organization.
- [MATERIAL SAFETY DATA SHEET REGULATIONS:](#)
 Material Safety Data Sheet in accordance with Article 31 of Regulation (EC) No. 1907/2006 (REACH) and Annex I of Regulation (EU) No. 453/2010.
- [HISTORY:](#) [Revision:](#)
 Version: 5 04/04/2013
 Version: 6 13/01/2014
- # [Modifications with respect to the previous Material Safety Data Dheet:](#)
 # *The possible legislative, contextual, numerical, methodological and normative changes with respect to the previous version are highlighted in this Material Safety Data Sheet by a mark # in red and italic.*

The information of this Material Safety Data Sheet, is based on the present state of knowledge and on current UE and national laws, as the users' working conditions are beyond our knowledge and control. The product is not to be used for other purposes than those specified, without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this Material Safety Data Sheet is meant as a description of the safety requirements of the product and it is not to be considered as a guarantee of the product's properties.