

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

Printing date: 02.08.2016

Revision: 02.08.2016

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

- **1.1 Product identifier**
- **Trade name:** Emulso v3
- **Article number:** 100925
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture:** Bath cleaner
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Theochem Laboratories  
7373 Rowlett Park Drive  
Tampa, FL 33610  
Phone: 813-237-6463
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
Classifications listed are applicable to the OSHA GHS Hazard Communication Standard (29CFR1910.1200).  
Skin Corr. 1C H314 Causes severe skin burns and eye damage.  
STOT SE 3 H335 May cause respiratory irritation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the Globally Harmonized System within the United States.  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**  

GHS05 GHS07
- **Signal word** Danger
- **Hazard-determining components of labelling:**  
hydrochloric acid  
didecyldimethylammonium chloride  
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides
- **Hazard statements**  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

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**Precautionary statements**

- P260 Do not breathe mist/vapours/spray.  
 P264 Wash thoroughly after handling.  
 P280 Wear protective gloves / eye protection.  
 P271 Use only outdoors or in a well-ventilated area.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P363 Wash contaminated clothing before reuse.  
 P312 Call a POISON CENTER/doctor if you feel unwell.  
 P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**NFPA ratings (scale 0 - 4)**

Health = 3  
 Fire = 0  
 Reactivity = 1

**HMIS-ratings (scale 0 - 4)**

Health = 3  
 Fire = 0  
 Reactivity = 1

- **2.3 Other hazards** There are no other hazards not otherwise classified that have been identified.  
 · **Results of PBT and vPvB assessment**  
 · **PBT:** Not applicable.  
 · **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures****Components:**

CAS: 7647-01-0 EINECS: 231-595-7 Index number: 017-002-00-2	hydrochloric acid Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335	10-20%
CAS: 9016-45-9 NLP: 500-024-6	4-nonylphenyl-polyethylene glycol Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2, H319	<1%

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CAS: 1643-20-5 EINECS: 216-700-6	dodecyldimethylamine oxide <div> <div>Eye Dam. 1, H318</div> <div>Aquatic Acute 1, H400; Aquatic Chronic 2, H411</div> <div>Acute Tox. 4, H302; Skin Irrit. 2, H315</div> </div>	<1%
CAS: 7173-51-5 EINECS: 230-525-2 Index number: 612-131-00-6	didecyldimethylammonium chloride <div> <div>Skin Corr. 1B, H314</div> <div>Aquatic Acute 1, H400; Aquatic Chronic 2, H411</div> <div>Acute Tox. 4, H302</div> </div>	<0,1%
CAS: 68424-85-1 EINECS: 270-325-2	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides <div> <div>Skin Corr. 1B, H314; Eye Dam. 1, H318</div> <div>Aquatic Acute 1, H400; Aquatic Chronic 1, H410</div> <div>Acute Tox. 4, H302</div> </div>	<0,1%

## SVHC

9016-45-9 | 4-nonylphenyl-polyethylene glycol

## Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentages are being withheld as a trade secret.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air.

Seek medical treatment in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### After skin contact:

Immediately remove any clothing soiled by the product.

Immediately rinse with water.

If skin irritation continues, consult a doctor.

#### After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then consult a doctor.

#### After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Strong caustic effect on skin and mucous membranes.

Breathing difficulty

Coughing

Gastric or intestinal disorders.

#### Hazards:

Danger of impaired breathing.

Causes serious eye damage.

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

Medical supervision for at least 48 hours.  
If necessary oxygen respiration treatment.

## SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** None.

· **5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

· **Additional information:**

Cool endangered receptacles with water spray.

Evacuate area and fight fire from the upwind side.

## SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

· **6.2 Environmental precautions**

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Clean the affected area carefully; suitable cleaners are:

Warm water

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

Prevent formation of aerosols.

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- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
  - Store in a cool location.
  - Provide ventilation for receptacles.
  - Unsuitable material for receptacle: steel.
  - Unsuitable material for receptacle: aluminium.
- **Information about storage in one common storage facility:**
  - Store away from oxidising agents.
  - Do not store together with alkalis (caustic solutions).
  - Store away from foodstuffs.
  - Store away from metals.
- **Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

### · 8.1 Control parameters

#### · **Ingredients with limit values that require monitoring at the workplace:**

##### **7647-01-0 hydrochloric acid**

IOELV (EU)	Short-term value: 15 mg/m <sup>3</sup> , 10 ppm Long-term value: 8 mg/m <sup>3</sup> , 5 ppm
PEL (USA)	Ceiling limit: 7 mg/m <sup>3</sup> , 5 ppm
REL (USA)	Ceiling limit: 7 mg/m <sup>3</sup> , 5 ppm
TLV (USA)	Ceiling limit: 2,98 mg/m <sup>3</sup> , 2 ppm

### · 8.2 Exposure controls

- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the eyes and skin.
  - Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**
  - Use suitable respiratory protective device in case of insufficient ventilation.
  - Use suitable respiratory protective device when aerosol or mist is formed.
  - For spills, respiratory protection may be advisable.
- **Protection of hands:**



Protective gloves

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The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **For the permanent contact gloves made of the following materials are suitable:**

Butyl rubber, BR  
Neoprene gloves  
Fluorocarbon rubber (Viton)

- **Eye protection:**



Safety glasses

- **Body protection:** Acid resistant protective clothing

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **Appearance**

Form: Viscous

Colour: White

- Odour: Pungent

- Odour threshold: Not determined.

- pH-value at 20 °C (68 °F): < 2

- Melting point/Melting range: Not determined.

- Boiling point/Boiling range: Not determined.

- Flash point: Not applicable.

- Flammability (solid, gaseous): Not applicable.

- Auto/Self-ignition temperature:

Decomposition temperature: Not determined.

- Danger of explosion: Product does not present an explosion hazard.

- **Explosion limits**

Lower: Not determined.

Upper: Not determined.

- Vapour pressure at 20 °C (68 °F): 23 hPa (17 mm Hg)

- Density at 20 °C (68 °F): 1,2 g/cm<sup>3</sup> (10,014 lbs/gal)

- Relative density: Not determined.

- Vapour density: Not determined.

- Evaporation rate: Not determined.

- Solubility in / Miscibility with  
water:

Fully miscible.

- Partition coefficient (n-octanol/water): Not determined.

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- **Viscosity**
- Dynamic:** Not determined.
- Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with metals forming hydrogen.  
Reacts with alkali (lyes).  
Corrosive action on metals.  
Reacts with strong oxidising agents.  
Develops toxic gases/fumes.
- **10.4 Conditions to avoid** Store away from oxidising agents.
- **10.5 Incompatible materials**  
Warning! Do not use together with other products. May release dangerous gases (chlorine).
- **10.6 Hazardous decomposition products**  
Hydrogen chloride (HCl)  
Chlorine compounds

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

### · LD/LC50 values relevant for classification:

#### 7647-01-0 hydrochloric acid

Oral	LD50	900 mg/kg (rabbit)
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#### 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral	LD50	344 mg/kg (rat)
Dermal	LD50	3340 mg/kg (rabbit)

#### 7173-51-5 didecyldimethylammonium chloride

Oral	LD50	84 mg/kg (rat)
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- **Primary irritant effect**
- **Skin corrosion/irritation:**  
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation:**  
Causes severe skin burns and eye damage.

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- **Respiratory or skin sensitisation:** Based on available data, the classification criteria are not met.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

None of the ingredients are listed.

- **NTP (National Toxicology Program):**

None of the ingredients are listed.

- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable routes of exposure:**

Ingestion.

Inhalation

Eye contact.

Skin contact.

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:**

May cause respiratory irritation.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

### 12.1 Toxicity

- **Aquatic toxicity:**

**68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides**

LC50 | 0,28 mg/l (pimephales promelas)

EC50 | 0,0059 mg/l (daphnia)

**7173-51-5 didecyldimethylammonium chloride**

EC50 | 0,071 mg/kg (daphnia) (48 hr)

LC50 | 0,49 mg/l (zebra fish) (96 hr)

- **12.2 Persistence and degradability** A part of the components is biodegradable.

- **12.3 Bioaccumulative potential** Does not accumulate in organisms.

- **12.4 Mobility in soil** No further relevant information available.

- **Ecotoxical effects:**

- **Remark:**

Toxic for algae

After neutralisation a reduction of the harming action may be recognised.

- **Additional ecological information:**

- **General notes:**

This statement was deduced from the properties of the single components.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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Harmful to aquatic organisms

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Small amounts may be diluted with plenty of water and washed away. Dispose of larger amounts in accordance with Local Authority requirements.  
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>                                | <p>UN1903</p>  |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>DOT, IATA</b></li> <li>· <b>ADR, IMDG</b></li> </ul> | <p>Disinfectant, liquid, corrosive, n.o.s. (Quaternary Ammonium Compound)<br/>DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compound)</p> |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>                                | <div style="text-align: center;">  </div>                             |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>  | <p>8 Corrosive substances.<br/>8</p>   |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>  | <div style="text-align: center;">  </div>                             |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> </ul>  | <p>8 (C9) Corrosive substances.</p>  |

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· <b>Label</b>	8
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances.
· <b>Label</b>	8
· <b>14.4 Packing group</b>	
· <b>DOT, ADR, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <b>Danger code (Kemler):</b>	80
· <b>EMS Number:</b>	F-A,S-B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>DOT</b>	
	Limited Quantity for packages less than 30 kg and inner packagings less than 5 L.
· <b>ADR</b>	
	Limited Quantity for packages less than 30 kg and inner packagings less than 5 L.
· <b>IMDG</b>	
	Limited Quantity for packages less than 30 kg and inner packagings less than 5 L.
· <b>IATA</b>	
	Limited Quantity for packages less than 30 kg and inner packagings less than 1 L.

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## SECTION 15: Regulatory information

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

- United States (USA)
- SARA

#### · Section 355 (extremely hazardous substances):

7647-01-0	hydrochloric acid
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#### · Section 313 (Specific toxic chemical listings):

7647-01-0	hydrochloric acid
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#### · TSCA (Toxic Substances Control Act):

All ingredients are listed.
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#### · Proposition 65 (California):

##### · Chemicals known to cause cancer:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.  
Present in trace quantities.

64-17-5	ethanol
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#### · Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.
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#### · Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.
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#### · Chemicals known to cause developmental toxicity:

Ethanol - listing refers specifically to alcoholic beverage consumption and is not applicable for product.  
Present in trace quantities.

64-17-5	ethanol
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#### · Carcinogenic Categories

#### · EPA (Environmental Protection Agency)

None of the ingredients are listed.
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#### · Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA)

EPA Product Registration #: 10324-176.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### PRECAUTIONARY STATEMENTS

##### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER.** Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing vapor or spray mist. Do not get into eyes, on skin or on clothing. Wear goggles or face shield. Wear protective clothing: long sleeve shirt, coveralls, socks, chemically resistant footwear and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**GENERAL PRECAUTION AND RESTRICTIONS: DO NOT MIX WITH CHLORINE, BLEACH; AMMONIA CLEANERS OR OTHER HOUSEHOLD CHEMICALS.**

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(If container is 5 gallons or larger the following statement must appear on the label.)

**ENVIRONMENTAL HAZARD**

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not mix with oxidizers, anionic soaps and detergents.

**NEVER USE WITH CHLORINE PRODUCTS.** Can react to give chlorine gas. If this occurs, flush toilet to remove chemicals and leave the area. Do not return for half an hour. Ventilate if possible. Never use or mix with other cleaners or chemicals. Do not use on any surface that can be damaged by acidic materials. Many surfaces are not resistant to acid.

**FIRST AID**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information on [product, use, etc.], call the National Pesticides Information Center at 1-800-858-7378, 6:30 am to 4:30 pm Pacific time (PT), seven days a week. During other times, call the poison control center 1-800-222-1222.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

<b>· IARC (International Agency for Research on Cancer)</b>	
64-17-5   ethanol	1

<b>· NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
None of the ingredients are listed.	

<b>· Canadian Domestic Substances List (DSL)</b>	
All ingredients are listed.	

<b>· Other regulations, limitations and prohibitive regulations</b>	
<b>· Substances of very high concern (SVHC) according to REACH, Article 57</b>	
9016-45-9   4-nonylphenyl-polyethylene glycol	

<b>· 15.2 Chemical safety assessment:</b> A Chemical Safety Assessment has not been carried out.	
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## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### · Relevant phrases

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

### · Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
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)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
LDLo: Lowest Lethal Dose Observed  
Met. Corr. 1: Corrosive to metals – Category 1  
Acute Tox. 4: Acute toxicity – Category 4  
Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
Skin Corr. 1C: Skin corrosion/irritation – Category 1C  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

### · Sources

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**Safety Data Sheet**  
according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and OSHA  
GHS

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Safety Data Sheets, Individual Manufacturers

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