

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878 - ES



## OKS 270

|         |                |                                 |             |
|---------|----------------|---------------------------------|-------------|
| Version | Revision Date: | Date of last issue: 19.02.2024  | Print Date: |
| 3.3     | 11.06.2024     | Date of first issue: 01.07.2016 | 11.06.2024  |

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

### 1.1 Product identifier

Product name : OKS 270

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

Use of the Substance/Mixture : Lubricant

Recommended restrictions on use : Restricted to professional users.

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

Company : OKS Spezialschmierstoffe GmbH  
Ganghoferstr. 47  
82216 Maisach-Gernlinden  
Deutschland  
Tel.: +49 8142 3051 500  
Fax: +49 8142 3051 599  
info@oks-germany.com

E-mail address of person responsible for the SDS : mcm@oks-germany.com

National contact :

### 1.4 Emergency telephone number

Emergency telephone number : +34 91 562 04 20

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Short-term (acute) aquatic hazard, Category 1 : H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 3 : H412: Harmful to aquatic life with long lasting effects.

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### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :

Signal word : Warning

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**  
P273 Avoid release to the environment.  
**Response:**  
P391 Collect spillage.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mineral oil.  
PTFE  
solid lubricant  
lithium soap

#### Components

| Chemical name | CAS-No.<br>EC-No.<br>Index-No. | Classification | specific<br>concentration<br>limit<br>M-Factor | Concentration<br>(% w/w) |
|---------------|--------------------------------|----------------|--|--------------------------|
|               |                                |                |  |                          |

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|   | Registration number   |   | Notes<br>Acute toxicity<br>estimate   |                     |
|---|---|---|---------------------------------------|---------------------|
| Distillates (petroleum),<br>hydrotreated heavy<br>paraffinic; Baseoil —<br>unspecified                                    | 64742-54-7<br>265-157-1<br><br>649-467-00-8                             | Asp. Tox.1; H304  |                                       | $\geq 30 - < 50$    |
| Amines, N-C16-C18-<br>alkyl-(evennumbered,<br>C18 unsaturated)<br>propane-1,3-<br>diaminium di[(9Z)-<br>octadec-9-enoate] | 800-362-7<br><br>01-2119974117-33-<br>XXXX                              | Skin Irrit.2; H315<br>Eye Irrit.2; H319<br>STOT RE2; H373<br>Aquatic Acute1;<br>H400<br>Aquatic Chronic2;<br>H411 | M-Factor: 10/1                        | $\geq 2,5 - < 10$   |
| zinc oxide  | 1314-13-2<br>215-222-5<br><br>030-013-00-7<br>01-2119463881-32-<br>XXXX | Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410  | M-Factor: 1/1                         | $\geq 1 - < 2,5$    |
| zinc carbonate  | 3486-35-9<br>222-477-6  | Aquatic Acute1;<br>H400<br>Aquatic Chronic1;<br>H410  | M-Factor: 1/1                         | $\geq 0,1 - < 0,25$ |
| Benzenamine, N-<br>phenyl-, reaction<br>products with 2,4,4-<br>trimethylpentene  | 68411-46-1<br>270-128-1<br><br>01-2119491299-23-<br>XXXX                | Repr.2; H361f   |                                       | $\geq 0,1 - < 1$    |
| Benzenesulfonic acid,<br>di-C10-14-alkyl<br>derivs., calcium salts  | 939-603-7<br><br>01-2119978241-36-<br>XXXX                              | Skin Sens.1B;<br>H317   | > 10 - 100 %<br>Skin Sens.1B,<br>H317 | $\geq 0,1 - < 1$    |
| Substances with a workplace exposure limit :  |   |   |                                       |                     |
| Distillates (petroleum),<br>hydrotreated heavy<br>paraffinic; Baseoil —<br>unspecified                                    | 64742-54-7<br>265-157-1<br><br>649-467-00-8<br>01-2119484627-25-        | Not classified  | Note L                                | $\geq 20 - < 30$    |

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|                            |  |                |  |                 |
|----------------------------|--|----------------|--|-----------------|
|                            | XXXX   |                |  |                 |
| lithium 12-hydroxystearate | 7620-77-1<br>231-536-5<br><br>01-2119970893-23-XXXX<br>01-2119970893-23-XXXX<br>01-2119970893-23-XXXX<br>01-2119970893-23-XXXX | Not classified |  | $\geq 1 - < 10$ |
| calcium distearate         | 1592-23-0<br>216-472-8   | Not classified |  | $\geq 1 - < 10$ |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Obtain medical attention.  
Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.  
Wash off immediately with plenty of water.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.

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If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Obtain medical attention.  
Never give anything by mouth to an unconscious person.

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

Symptoms : No symptoms known or expected.  
Risks : None known.

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NOx)  
Oxides of phosphorus  
Halogenated compounds  
Metal oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment. Exposure to decomposition products may be a hazard to health.  
Further information : Standard procedure for chemical fires.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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### SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Ensure adequate ventilation.  
Do not breathe vapours, aerosols.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Environmental precautions : Do not allow contact with soil, surface or ground water.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

#### 6.4 Reference to other sections

For personal protection see section 8.

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not use in areas without adequate ventilation.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the  
application area.  
Wash hands and face before breaks and immediately after  
handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
These safety instructions also apply to empty packaging which  
may still contain product residues.  
Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after  
handling.

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

Requirements for storage areas and containers : Store in original container. Keep container closed when not in  
use. Keep in a dry, cool and well-ventilated place. Containers  
which are opened must be carefully resealed and kept upright  
to prevent leakage. Store in accordance with the particular

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national regulations. Keep in properly labelled containers.

### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components  | CAS-No.    | Value type (Form of exposure) | Control parameters   | Basis               |
|---|------------|-------------------------------|----------------------|---------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified | 64742-54-7 | VLA-ED (Mist)                 | 5 mg/m <sup>3</sup>  | ES VLA (2019-02-20) |
|   |            | VLA-EC (Mist)                 | 10 mg/m <sup>3</sup> | ES VLA (2019-02-20) |
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified | 64742-54-7 | VLA-ED (Mist)                 | 5 mg/m <sup>3</sup>  | ES VLA (2019-02-20) |
|   |            | VLA-EC (Mist)                 | 10 mg/m <sup>3</sup> | ES VLA (2019-02-20) |
| lithium 12-hydroxystearate  | 7620-77-1  | VLA-ED                        | 10 mg/m <sup>3</sup> | ES VLA (2012-01-01) |
| calcium distearate  | 1592-23-0  | VLA-ED                        | 10 mg/m <sup>3</sup> | ES VLA (2012-01-01) |
| zinc oxide  | 1314-13-2  | VLA-ED (respirable fraction)  | 2 mg/m <sup>3</sup>  | ES VLA (2016-01-01) |
|   |            | VLA-EC (respirable fraction)  | 10 mg/m <sup>3</sup> | ES VLA (2016-01-01) |

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

| Substance name  | End Use | Exposure routes | Potential health effects   | Value                  |
|---|---------|-----------------|----------------------------|------------------------|
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified | Workers | Inhalation      | Long-term local effects    | 5,58 mg/m <sup>3</sup> |
|   | Workers | Inhalation      | Long-term systemic effects | 2,73 mg/m <sup>3</sup> |

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|   | Workers | Skin contact | Long-term systemic effects | 0,97 mg/kg              |
| Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate] | Workers | Skin contact | Long-term systemic effects | 0,04 mg/kg              |
|   | Workers | Inhalation   | Long-term systemic effects | 0,29 mg/m <sup>3</sup>  |
| calcium distearate  |         | Skin contact | Long-term local effects    | 0,172 mg/m <sup>3</sup> |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene                                   | Workers | Skin contact | Long-term systemic effects | 0,44 mg/kg bw/day       |
|   | Workers | Inhalation   | Long-term systemic effects | 0,31 mg/m <sup>3</sup>  |
| Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts  | Workers | Inhalation   | Long-term systemic effects | 35,26 mg/m <sup>3</sup> |
|   | Workers | Dermal       | Long-term systemic effects | 25 mg/kg                |

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

| Substance name  | Environmental Compartment                            | Value         |
|---|--|---------------|
| Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified                           | Oral   | 9,33 mg/kg    |
| Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate] | Fresh water  | 0,00638 mg/l  |
|   | Marine water   | 0,000638 mg/l |
|   | Intermittent use/release                             | 0,00509 mg/l  |
|   | Microbiological Activity in Sewage Treatment Systems | 98,6 mg/l     |
|   | Fresh water sediment                                 | 204 mg/kg     |
|   | Marine sediment                                      | 20,4 mg/kg    |
|   | Soil   | 9,93 mg/kg    |
| zinc oxide  | Fresh water  | 0,0179 mg/l   |
|   | Marine water   | 0,009 mg/l    |
|   | Sewage treatment plant                               | 0,1245 mg/l   |
|   | Fresh water sediment                                 | 182,8 mg/kg   |
|   | Marine sediment                                      | 201,9 mg/kg   |
|   | Soil   | 103,4 mg/kg   |
| Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene                                   | Fresh water  | 0,034 mg/l    |



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|  |  |             |
|--|--|-------------|
|  | Marine water   | 0,003 mg/l  |
|  | Fresh water sediment                                 | 0,446 mg/kg |
|  | Marine sediment                                      | 0,045 mg/kg |
|  | Soil   | 1,76 mg/kg  |
|  | Sewage treatment plant                               | 10 mg/l     |
|  | Intermittent use/release                             | 0,51 mg/l   |
| Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts | Fresh water  | 0,1 mg/l    |
|  | Marine water   | 0,1 mg/l    |
|  | Fresh water sediment                                 | 45211 mg/kg |
|  | Marine sediment                                      | 45211 mg/kg |
|  | Microbiological Activity in Sewage Treatment Systems | 1000 mg/l   |
|  | Soil   | 36739 mg/kg |

### 8.2 Exposure controls

#### Engineering measures

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Eye/face protection : Safety glasses

#### Hand protection

Material : Fluorinated rubber  
Break through time : > 10 min  
Protective index : Class 1

Remarks : Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Respiratory protection : Not required; except in case of aerosol formation.

Filter type : Filter type A-P

Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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### SECTION 9: Physical and chemical properties

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

|  |   |   |
|--|---|---|
| Physical state                                   | : | paste   |
| Colour   | : | beige   |
| Odour  | : | hydrocarbon-like  |
| Odour Threshold                                  | : | No data available   |
| Drop point                                       | : | > 190 °C (1.013 hPa)  |
| Boiling point/boiling range                      | : | No data available   |
| Flammability (solid, gas)                        | : | Combustible Solids  |
| Upper explosion limit / Upper flammability limit | : | No data available   |
| Lower explosion limit / Lower flammability limit | : | No data available   |
| Flash point                                      | : | Not applicable  |
| Auto-ignition temperature                        | : | No data available   |
| Decomposition temperature                        | : | No data available   |
| pH   | : | Not applicable<br>substance/mixture is non-soluble (in water) |
| Viscosity  |   |   |
| Viscosity, dynamic                               | : | No data available   |
| Viscosity, kinematic                             | : | Not applicable  |
| Solubility(ies)                                  |   |   |
| Water solubility                                 | : | insoluble   |
| Solubility in other solvents                     | : | No data available   |
| Partition coefficient: n-octanol/water           | : | No data available   |
| Vapour pressure                                  | : | < 0,001 hPa (20 °C)   |

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Relative density : 1,15 (20 °C)  
Reference substance: Water  
The value is calculated

Density : 1,15 g/cm<sup>3</sup>  
(20 °C)

Bulk density : No data available

Relative vapour density : No data available

Particle characteristics

Particle size : Not applicable

Particle Size Distribution : Not applicable

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : not auto-flammable

Metal corrosion rate : Not corrosive to metals

Evaporation rate : No data available

Sublimation point : No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

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### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

##### Product:

Acute oral toxicity : Remarks: This information is not available.  
Acute inhalation toxicity : Remarks: This information is not available.  
Acute dermal toxicity : Remarks: This information is not available.

##### Components:

#### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Acute inhalation toxicity : LC50 (Rat): Exposure time: 4 h  
Test atmosphere: dust/mist  
Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

#### **zinc oxide:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

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Method: OECD Test Guideline 402  
GLP: yes  
Assessment: The substance or mixture has no acute dermal toxicity

### **zinc carbonate:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 1,9 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401  
GLP: yes

Acute inhalation toxicity : LC50 (Rat): > 5,53 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

### **lithium 12-hydroxystearate:**

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Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rabbit): > 3.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **calcium distearate:**

Acute oral toxicity : LD50 (Rat): 5.000 mg/kg  
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat): > 200 mg/l  
Exposure time: 1 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

#### **Product:**

Remarks : This information is not available.

#### **Components:**

#### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Species : Rabbit  
Assessment : Irritating to skin.  
Result : Irritating to skin.

#### **zinc oxide:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Rabbit  
Assessment : No skin irritation  
Result : No skin irritation

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment : No skin irritation  
Method : OECD Test Guideline 404

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Result : No skin irritation

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Species : Rabbit  
Assessment : No skin irritation  
Method : OECD Test Guideline 404  
Result : No skin irritation  
GLP : yes

### **lithium 12-hydroxystearate:**

Assessment : No skin irritation  
Method : OECD Test Guideline 439  
Result : No skin irritation

### **calcium distearate:**

Species : Rabbit  
Assessment : No skin irritation  
Result : No skin irritation

### **Serious eye damage/eye irritation**

#### **Product:**

Remarks : This information is not available.

#### **Components:**

### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Species : Rabbit  
Assessment : Irritating to eyes.  
Method : OECD Test Guideline 405  
Result : Irritating to eyes.

### **zinc oxide:**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### **zinc carbonate:**

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

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### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No skin irritation

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation  
GLP : yes

### **lithium 12-hydroxystearate:**

Species : Rabbit  
Assessment : No eye irritation  
Method : OECD Test Guideline 405  
Result : No eye irritation

### **calcium distearate:**

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

### **Respiratory or skin sensitisation**

#### **Product:**

Remarks : This information is not available.

#### **Components:**

### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### **zinc oxide:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.



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GLP : yes

### **zinc carbonate:**

Test Type : Maximisation Test  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans  
Result : Probability or evidence of low to moderate skin sensitisation rate in humans

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.  
GLP : yes

### **lithium 12-hydroxystearate:**

Exposure routes : Dermal  
Species : Mouse  
Method : OECD Test Guideline 429  
Result : negative

### **calcium distearate:**

Exposure routes : Dermal  
Species : Guinea pig  
Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

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Genotoxicity in vivo : Remarks: No data available

### Components:

#### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Genotoxicity in vitro : Test Type: Ames test  
Result: negative

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **zinc oxide:**

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 471  
Result: negative

#### **calcium distearate:**

Germ cell mutagenicity-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **Carcinogenicity**

#### Product:

Remarks : No data available

### Components:

#### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

#### **zinc oxide:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

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Assessment

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **calcium distearate:**

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

### **Reproductive toxicity**

#### **Product:**

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

#### **Components:**

### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No toxicity to reproduction

### **zinc oxide:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No toxicity to reproduction

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Reproductive toxicity - Assessment : - Fertility -  
Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Reproductive toxicity - Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -

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No toxicity to reproduction

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Reproductive toxicity -  
Assessment : - Fertility -  
No toxicity to reproduction

### **calcium distearate:**

Reproductive toxicity -  
Assessment : - Fertility -  
No toxicity to reproduction  
- Teratogenicity -  
No effects on or via lactation

### **STOT - single exposure**

#### **Product:**

Remarks : No data available

#### **Components:**

### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

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

### **zinc oxide:**

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

### **calcium distearate:**

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

### **STOT - repeated exposure**

#### **Product:**

Remarks : No data available

#### **Components:**

### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Exposure routes : Ingestion  
Assessment : May cause damage to organs through prolonged or repeated exposure.

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### **zinc oxide:**

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

### **calcium distearate:**

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

### **Repeated dose toxicity**

#### **Product:**

Remarks : This information is not available.

### **Aspiration toxicity**

#### **Product:**

This information is not available.

### **Components:**

#### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

May be fatal if swallowed and enters airways.

May be harmful if swallowed and enters airways.

#### **zinc oxide:**

No aspiration toxicity classification

#### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

No aspiration toxicity classification

#### **calcium distearate:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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### Further information

#### Product:

Remarks : Information given is based on data on the components and the toxicology of similar products.

#### Components:

##### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Remarks : Information given is based on data on the components and the toxicology of similar products.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: Very toxic to aquatic organisms.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### Components:

##### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 0,1 - 1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0,1 - 1 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 0,01 - 0,1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 10

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : EC50: 1,41 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### zinc oxide:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1,55 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,136 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201  
GLP: yes

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209  
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : 0,04 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

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### **zinc carbonate:**

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Ceriodaphnia dubia (water flea)): 0,147 mg/l  
aquatic invertebrates Exposure time: 48 h

M-Factor (Acute aquatic : 1  
toxicity)

M-Factor (Chronic aquatic : 1  
toxicity)

### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 51 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
plants Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

Toxicity to daphnia and other : EL10: 1,69 mg/l  
aquatic invertebrates Exposure time: 21 d  
(Chronic toxicity) Species: Daphnia magna (Water flea)

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : NOELR (Desmodesmus subspicatus (green algae)): 100 mg/l  
plants Exposure time: 72 h  
Method: OECD Test Guideline 201



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EL50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): > 10.000 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 10.000 mg/l  
aquatic invertebrates : Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202  
GLP: yes

Toxicity to daphnia and other : NOEC: 10 mg/l  
aquatic invertebrates : Exposure time: 21 d  
(Chronic toxicity) : Species: Daphnia magna (Water flea)  
Test Type: semi-static test  
Method: OECD Test Guideline 211  
GLP: yes

### **lithium 12-hydroxystearate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: semi-static test  
Method: OECD Test Guideline 203  
GLP: yes

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates : Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Pseudokirchneriella subcapitata (green algae)): > 160  
plants : mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 160  
mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **calcium distearate:**

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Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test

### 12.2 Persistence and degradability

#### **Product:**

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### **Components:**

##### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 65 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D  
GLP: yes

##### **zinc oxide:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

##### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 1 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

##### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

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Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 8 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Result: Not rapidly biodegradable  
Biodegradation: 3 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B  
GLP: yes

### **lithium 12-hydroxystearate:**

Biodegradability : Test Type: Primary biodegradation  
Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 74,7 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301C

### **calcium distearate:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: 95 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301D

## 12.3 Bioaccumulative potential

### **Product:**

Bioaccumulation : Remarks: No data available

### **Components:**

#### **Amines, N-C16-C18-alkyl-(evennumbered, C18 unsaturated) propane-1,3-diaminium di[(9Z)-octadec-9-enoate]:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Bioaccumulation : Species: Cyprinus carpio (Carp)  
Exposure time: 42 d  
Bioconcentration factor (BCF): 1.730  
Remarks: Due to the distribution coefficient n-octanol/water, accumulation in organisms is possible.

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Partition coefficient: n-octanol/water : log Pow: 5,2 - 10,82

### **Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts:**

Bioaccumulation : Bioconcentration factor (BCF): 70,8

Partition coefficient: n-octanol/water : log Pow: 6,91 (20 °C)

### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Partition coefficient: n-octanol/water : log Pow: 10,16 - 24,9

### **lithium 12-hydroxystearate:**

Partition coefficient: n-octanol/water : log Pow: 2,6

### **calcium distearate:**

Partition coefficient: n-octanol/water : log Pow: 14,34

## 12.4 Mobility in soil

### **Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### **Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **Components:**

#### **zinc oxide:**

Assessment : Remarks: Not applicable

#### **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:**

Assessment : Non-classified PBT substance. Non-classified vPvB substance

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### **Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil — unspecified:**

Assessment : Non-classified vPvB substance. Non-classified PBT substance

### **calcium distearate:**

Assessment : Non-classified vPvB substance. Non-classified PBT substance

## 12.6 Endocrine disrupting properties

### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## 12.7 Other adverse effects

### **Product:**

Additional ecological information : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product  
12 01 12\*\*, spent waxes and fats

uncleaned packagings  
15 01 10\*, packaging containing residues of or contaminated by hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

**ADR** : UN 3077  
**RID** : UN 3077  
**IMDG** : UN 3077  
**IATA** : UN 3077

#### 14.2 UN proper shipping name

**ADR** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(fatty amine derivative)  
**RID** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
**IMDG** : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,  
N.O.S.  
(fatty amine derivative)  
**IATA** : Environmentally hazardous substance, solid, n.o.s.  
(fatty amine derivative)

#### 14.3 Transport hazard class(es)

**ADR** : 9  
**RID** : 9  
**IMDG** : 9  
**IATA** : 9

#### 14.4 Packing group

**ADR**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
Tunnel restriction code : (-)  
**RID**  
Packing group : III  
Classification Code : M7  
Hazard Identification Number : 90  
Labels : 9  
**IMDG**  
Packing group : III

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Labels : 9  
EmS Code : F-A, S-F

### IATA (Cargo)

Packing instruction (cargo aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### IATA (Passenger)

Packing instruction (passenger aircraft) : 956  
Packing instruction (LQ) : Y956  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

## 14.5 Environmental hazards

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered:  
Number on list 75  
If you intend to use this product as tattoo ink, please contact your

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vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals (EU PIC) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH-Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Not applicable

### 15.2 Chemical safety assessment

This information is not available.



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### SECTION 16: Other information

#### Full text of H-Statements

H304 : May be fatal if swallowed and enters airways.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H361f : Suspected of damaging fertility.  
H373 : May cause damage to organs through prolonged or repeated exposure if swallowed.  
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.

#### Full text of other abbreviations

Note L : The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions - Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

ES VLA : Spain. Environmental Limits for exposure to Chemical agents - Table 1: Occupational Exposure Values

ES VLA / VLA-ED : Environmental Daily Limit Value

ES VLA / VLA-EC : Environmental Short Term Value

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -

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International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

|                   |      |
|-------------------|------|
| Aquatic Acute 1   | H400 |
| Aquatic Chronic 3 | H412 |

#### Classification procedure:

|                    |
|--------------------|
| Calculation method |
| Calculation method |

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