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Replacing version dated / version: 18.05.2022 / 0001  
Valid from: 29.03.2023  
PDF print date: 31.03.2023  
MOBIL ATF 220

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**MOBIL ATF 220**

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

**Relevant identified uses of the substance or mixture:**

Automatic transmission oil

**Uses advised against:**

No information available at present.

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

GB

elumatec AG  
Pinacher Straße 61  
75417 Mühlacker  
Tel.: +49 (0) 7041 / 14 – 0  
Fax: +49 (0) 7041 / 14 – 280  
Homepage: [www.elumatec.com](http://www.elumatec.com)

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MK14 6FD

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Qualified person's e-mail address: [info@chemical-check.de](mailto:info@chemical-check.de), [k.schnurbusch@chemical-check.de](mailto:k.schnurbusch@chemical-check.de) Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

GB

Emergency poisoning centre D-79110 Freiburg Tel.: +49 (0) 761 19240 (24 hour)

**Telephone number of the company in case of emergencies:**

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

| Hazard class    | Hazard category | Hazard statement                                        |
|-----------------|-----------------|---------------------------------------------------------|
| Aquatic Chronic | 3               | H412-Harmful to aquatic life with long lasting effects. |

#### 2.2 Label elements

## Labeling according to Regulation (EC) 1272/2008 (CLP)

H412-Harmful to aquatic life with long lasting effects.

P273-Avoid release to the environment.

EUH208-Contains Benzenesulfonic acid, 4-(branched alkyl derivs.) and benzenesulfonic acid, 4-(linear alkyl derivs.), calcium salts, Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts, 1-(tert-dodecylthio)propan-2-ol. May produce an allergic reaction.

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Distillates (petroleum), hydrotreated heavy paraffinic                 |                       |
|------------------------------------------------------------------------|-----------------------|
| Registration number (REACH)                                            | 01-2119484627-25-XXXX |
| Index                                                                  | 649-467-00-8          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 265-157-1             |
| CAS                                                                    | 64742-54-7            |
| content %                                                              | 10-<50                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304     |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic              |                       |
|------------------------------------------------------------------------|-----------------------|
| Registration number (REACH)                                            | 01-2119471299-27-XXXX |
| Index                                                                  | 649-474-00-6          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 265-169-7             |
| CAS                                                                    | 64742-65-0            |
| content %                                                              | 10-<50                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304     |

| Distillates (petroleum), hydrotreated light naphthenic                 |                       |
|------------------------------------------------------------------------|-----------------------|
| Registration number (REACH)                                            | 01-2119480375-34-XXXX |
| Index                                                                  | 649-466-00-2          |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 265-156-6             |
| CAS                                                                    | 64742-53-6            |
| content %                                                              | 1-<5                  |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304     |

| Benzenesulfonic acid, 4-(branched alkyl derivs.) and benzenesulfonic acid, 4-(linear alkyl derivs.), calcium salts |                       |
|--------------------------------------------------------------------------------------------------------------------|-----------------------|
| Registration number (REACH)                                                                                        | 01-2120040541-70-XXXX |
| Index                                                                                                              | ---                   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                                                             | 939-141-6             |
| CAS                                                                                                                | ---                   |
| content %                                                                                                          | 0,1-<1                |

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|                                                                               |                            |
|-------------------------------------------------------------------------------|----------------------------|
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Sens. 1B, H317        |
| <b>Specific Concentration Limits and ATE</b>                                  | Skin Sens. 1B, H317: >10 % |

|                                                                                                             |                             |
|-------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts</b> |                             |
| <b>Registration number (REACH)</b>                                                                          | 01-2120765489-36-XXXX       |
| <b>Index</b>                                                                                                | ---                         |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                                               | 947-519-7                   |
| <b>CAS</b>                                                                                                  | ---                         |
| <b>content %</b>                                                                                            | 0,1-<1                      |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>                               | Skin Sens. 1B, H317         |
| <b>Specific Concentration Limits and ATE</b>                                                                | Skin Sens. 1B, H317: >=10 % |

|                                                                               |                                                                                     |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <b>1-(tert-dodecylthio)propan-2-ol</b>                                        |                                                                                     |
| <b>Registration number (REACH)</b>                                            | 01-2119953277-30-XXXX                                                               |
| <b>Index</b>                                                                  | ---                                                                                 |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 266-582-5                                                                           |
| <b>CAS</b>                                                                    | 67124-09-8                                                                          |
| <b>content %</b>                                                              | 0,01-<1                                                                             |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Skin Sens. 1B, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) |
| <b>Specific Concentration Limits and ATE</b>                                  | Skin Sens. 1B, H317: >=14,2001 %                                                    |

|                                                                               |                                                                                                                                                      |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol</b>    |                                                                                                                                                      |
| <b>Registration number (REACH)</b>                                            | 01-2119510877-33-XXXX                                                                                                                                |
| <b>Index</b>                                                                  | ---                                                                                                                                                  |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 620-540-6                                                                                                                                            |
| <b>CAS</b>                                                                    | 1218787-32-6                                                                                                                                         |
| <b>content %</b>                                                              | 0,01-<0,25                                                                                                                                           |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Met. Corr. 1, H290<br>Acute Tox. 4, H302<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |

|                                                                               |                                                                         |
|-------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>Hydrogen sulphide</b>                                                      | <b>Substance for which an EU exposure limit value applies.</b>          |
| <b>Registration number (REACH)</b>                                            | ---                                                                     |
| <b>Index</b>                                                                  | 016-001-00-4                                                            |
| <b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>                                 | 231-977-3                                                               |
| <b>CAS</b>                                                                    | 7783-06-4                                                               |
| <b>content %</b>                                                              | 0,001-<0,0025                                                           |
| <b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b> | Flam. Gas 1A, H220<br>Acute Tox. 2, H330<br>Aquatic Acute 1, H400 (M=1) |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!

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Never pour anything into the mouth of an unconscious person!

### **Inhalation**

Supply person with fresh air and consult doctor according to symptoms.  
Respiratory arrest - Artificial respiration apparatus necessary.

### **Skin contact**

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

In case of skin injury by high pressure, a risk of penetration of lubricant into the skin exists.  
Immediate admittance to a hospital.

### **Eye contact**

Remove contact lenses.  
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

### **Ingestion**

Rinse the mouth thoroughly with water.  
Do not induce vomiting. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

Irritation of the eyes  
irritation of the respiratory tract  
coughing  
fatigue  
gastrointestinal disturbances  
Allergic reaction

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

Symptomatic treatment.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Water jet spray/foam/CO2/dry extinguisher

#### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon  
Oxides of sulphur  
Aldehydes  
Hydrocarbons  
Toxic gases

### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.  
In case of fire and/or explosion do not breathe fumes.  
Protective respirator with independent air supply.  
According to size of fire  
Full protection, if necessary.  
Cool container at risk with water.  
Dispose of contaminated extinction water according to official regulations.

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

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

#### **6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.  
Ensure sufficient ventilation, remove sources of ignition.  
Avoid dust formation with solid or powder products.

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Leave the danger zone if possible, use existing emergency plans if necessary.  
Keep unprotected persons away.  
Avoid contact with eyes or skin.  
If applicable, caution - risk of slipping.

### 6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

### 6.2 Environmental precautions

If leakage occurs, dam up.  
Resolve leaks if this possible without risk.  
Prevent from entering drainage system.  
Prevent surface and ground-water infiltration, as well as ground penetration.  
If accidental entry into drainage system occurs, inform responsible authorities.

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

Installation of barriers, covering sewers.  
Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.  
Fill the absorbed material into lockable containers.

### 6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### 7.1 Precautions for safe handling

#### 7.1.1 General recommendations

Ensure good ventilation.  
Avoid breathing vapours or spray.  
Keep away from sources of ignition - Do not smoke.  
Take precautions against electrostatic charges.  
Avoid contact with eyes or skin.  
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.  
Observe directions on label and instructions for use.  
Use working methods according to operating instructions.

#### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.  
Wash hands before breaks and at end of work.  
Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Keep out of access to unauthorised individuals.  
Store product closed and only in original packing.  
Not to be stored in gangways or stair wells.  
Earth devices.  
Protect from direct sunlight.  
Store in a well ventilated place.  
Store at room temperature.  
Store in a dry place.

### 7.3 Specific end use(s)

No information available at present.  
Observe the instructions for good working practice and the recommendations for risk assessment.  
Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,  
depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

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|                                                 |                                                    |                        |
|-------------------------------------------------|----------------------------------------------------|------------------------|
| WEL-TWA: 5 ppm (7 mg/m <sup>3</sup> ) (WEL, EU) | WEL-STEL: 10 ppm (14 mg/m <sup>3</sup> ) (WEL, EU) | ---                    |
| Monitoring procedures: ---                      |                                                    |                        |
| BMGV: ---                                       |                                                    | Other information: --- |

| Chemical Name                                                                     | Oil mist, mineral |                        |
|-----------------------------------------------------------------------------------|-------------------|------------------------|
| WEL-TWA: 5 mg/m <sup>3</sup> (Mineral oil, excluding metal working fluids, ACGIH) | WEL-STEL: ---     | ---                    |
| Monitoring procedures: - Draeger - Oil Mist 1/a (67 33 031)                       |                   |                        |
| BMGV: ---                                                                         |                   | Other information: --- |

| Distillates (petroleum), hydrotreated heavy paraffinic |                                            |                             |            |       |                   |      |
|--------------------------------------------------------|--------------------------------------------|-----------------------------|------------|-------|-------------------|------|
| Area of application                                    | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
|                                                        | Environment - oral (animal feed)           |                             | PNEC       | 9,33  | mg/kg             |      |
| Consumer                                               | Human - inhalation                         | Long term, local effects    | DNEL       | 1,2   | mg/m <sup>3</sup> |      |
| Consumer                                               | Human - oral                               | Long term, systemic effects | DNEL       | 0,74  | mg/kg             |      |
| Workers / employees                                    | Human - inhalation                         | Long term, local effects    | DNEL       | 5,58  | mg/m <sup>3</sup> |      |
| Workers / employees                                    | Human - dermal                             | Long term, systemic effects | DNEL       | 0,97  | mg/kg             |      |
| Workers / employees                                    | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,73  | mg/m <sup>3</sup> |      |

| Distillates (petroleum), solvent-dewaxed heavy paraffinic |                                            |                             |            |       |                   |      |
|-----------------------------------------------------------|--------------------------------------------|-----------------------------|------------|-------|-------------------|------|
| Area of application                                       | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit              | Note |
|                                                           | Environment - oral (animal feed)           |                             | PNEC       | 9,33  | mg/kg feed        |      |
| Consumer                                                  | Human - inhalation                         | Long term, local effects    | DNEL       | 1,19  | mg/m <sup>3</sup> |      |
| Consumer                                                  | Human - oral                               | Long term, systemic effects | DNEL       | 0,74  | mg/kg bw/d        |      |
| Workers / employees                                       | Human - inhalation                         | Long term, local effects    | DNEL       | 5,58  | mg/m <sup>3</sup> |      |
| Workers / employees                                       | Human - inhalation                         | Long term, systemic effects | DNEL       | 2,73  | mg/m <sup>3</sup> |      |
| Workers / employees                                       | Human - dermal                             | Long term, systemic effects | DNEL       | 0,97  | mg/kg bw/d        |      |

| 1-(tert-dodecylthio)propan-2-ol |                                            |                  |            |       |       |      |
|---------------------------------|--------------------------------------------|------------------|------------|-------|-------|------|
| Area of application             | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit  | Note |
|                                 | Environment - soil                         |                  | PNEC       | 0,244 | mg/kg |      |
|                                 | Environment - sewage treatment plant       |                  | PNEC       | 100   | mg/l  |      |
|                                 | Environment - sediment, marine             |                  | PNEC       | 0,828 | mg/kg |      |
|                                 | Environment - sediment, freshwater         |                  | PNEC       | 8,28  | mg/kg |      |
|                                 | Environment - marine                       |                  | PNEC       | 0,001 | mg/l  |      |
|                                 | Environment - freshwater                   |                  | PNEC       | 0,006 | mg/l  |      |

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|                     |                    |                             |      |        |                       |  |
|---------------------|--------------------|-----------------------------|------|--------|-----------------------|--|
| Consumer            | Human - oral       | Long term, systemic effects | DNEL | 0,84   | mg/kg body weight/day |  |
| Consumer            | Human - inhalation | Long term, systemic effects | DNEL | 2,9    | mg/m3                 |  |
| Consumer            | Human - dermal     | Long term, systemic effects | DNEL | 1,67   | mg/kg body weight/day |  |
| Consumer            | Human - dermal     | Short term, local effects   | DNEL | 0,1077 | mg/cm2                |  |
| Workers / employees | Human - dermal     | Long term, systemic effects | DNEL | 3,34   | mg/kg body weight/day |  |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 11,8   | mg/m3                 |  |
| Workers / employees | Human - dermal     | Short term, local effects   | DNEL | 0,2154 | mg/cm2                |  |

| 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol |                                            |                             |            |       |            |      |
|---------------------------------------------------------------------|--------------------------------------------|-----------------------------|------------|-------|------------|------|
| Area of application                                                 | Exposure route / Environmental compartment | Effect on health            | Descriptor | Value | Unit       | Note |
|                                                                     | Environment - freshwater                   |                             | PNEC       | 0,21  | µg/l       |      |
| Consumer                                                            | Human - dermal                             | Long term, systemic effects | DNEL       | 0,21  | mg/kg bw/d |      |
| Consumer                                                            | Human - oral                               | Long term, systemic effects | DNEL       | 0,21  | mg/kg bw/d |      |
| Workers / employees                                                 | Human - dermal                             | Long term, systemic effects | DNEL       | 0,3   | mg/kg bw/d |      |

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. EN 14042.  
 EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.  
 Wash hands before breaks and at end of work.

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Keep away from food, drink and animal feedingstuffs.  
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:  
Tight fitting protective goggles (EN 166) with side protection, with danger of splashes.

Skin protection - Hand protection:  
Chemical resistant protective gloves (EN ISO 374).  
If applicable  
Protective Neoprene® / polychloroprene gloves (EN ISO 374).  
Protective nitrile gloves (EN ISO 374).  
Protective Viton® / fluoroelastomer gloves (EN ISO 374).  
Minimum layer thickness in mm:

0,5  
Permeation time (penetration time) in minutes:  
480  
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.  
The recommended maximum wearing time is 50% of breakthrough time.  
Protective hand cream recommended.

Skin protection - Other:  
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:  
Normally not necessary.  
With oil mist formation:  
Filter A P2 (EN 14387), code colour brown, white  
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:  
Not applicable

Additional information on hand protection - No tests have been performed.  
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.  
Selection of materials derived from glove manufacturer's indications.  
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.  
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.  
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.  
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

## 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                           |                                                      |
|-----------------------------------------------------------|------------------------------------------------------|
| Physical state:                                           | Liquid                                               |
| Colour:                                                   | Red                                                  |
| Odour:                                                    | Characteristic                                       |
| Melting point/freezing point:                             | < -40 °C (ASTM D 97)                                 |
| Boiling point or initial boiling point and boiling range: | >316 °C                                              |
| Flammability:                                             | There is no information available on this parameter. |
| Lower explosion limit:                                    | ~0,9 Vol-%                                           |
| Upper explosion limit:                                    | ~7,0 Vol-%                                           |
| Flash point:                                              | >170 °C (ASTM D 92 (Cleveland, open cup))            |
| Auto-ignition temperature:                                | There is no information available on this parameter. |
| Decomposition temperature:                                | There is no information available on this parameter. |
| pH:                                                       | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                                      | 7,6 mm <sup>2</sup> /s (100°C, ASTM D 445)           |

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|                                                    |                                                                                                 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Kinematic viscosity:                               | 40 mm <sup>2</sup> /s (40°C, ASTM D 445, There is no information available on this parameter. ) |
| Solubility:                                        | Insoluble                                                                                       |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures.                                                                     |
| Vapour pressure:                                   | < 0,013 kPa (20°C)                                                                              |
| Density and/or relative density:                   | 0,874 (15°C, ASTM D 4052, relative density )                                                    |
| Relative vapour density:                           | >2                                                                                              |
| Particle characteristics:                          | Does not apply to liquids.                                                                      |
| <b>9.2 Other information</b>                       |                                                                                                 |
| Explosives:                                        | Product is not explosive.                                                                       |
| Oxidising liquids:                                 | No                                                                                              |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

Strong heat

### 10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

| MOBIL ATF 220                                                 |          |       |      |          |             |        |
|---------------------------------------------------------------|----------|-------|------|----------|-------------|--------|
| Toxicity / effect                                             | Endpoint | Value | Unit | Organism | Test method | Notes  |
| Acute toxicity, by oral route:                                |          |       |      |          |             | n.d.a. |
| Acute toxicity, by dermal route:                              |          |       |      |          |             | n.d.a. |
| Acute toxicity, by inhalation:                                |          |       |      |          |             | n.d.a. |
| Skin corrosion/irritation:                                    |          |       |      |          |             | n.d.a. |
| Serious eye damage/irritation:                                |          |       |      |          |             | n.d.a. |
| Respiratory or skin sensitisation:                            |          |       |      |          |             | n.d.a. |
| Germ cell mutagenicity:                                       |          |       |      |          |             | n.d.a. |
| Carcinogenicity:                                              |          |       |      |          |             | n.d.a. |
| Reproductive toxicity:                                        |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE):   |          |       |      |          |             | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): |          |       |      |          |             | n.d.a. |
| Aspiration hazard:                                            |          |       |      |          |             | n.d.a. |
| Symptoms:                                                     |          |       |      |          |             | n.d.a. |

| Distillates (petroleum), hydrotreated heavy paraffinic |          |       |       |          |                                                      |                      |
|--------------------------------------------------------|----------|-------|-------|----------|------------------------------------------------------|----------------------|
| Toxicity / effect                                      | Endpoint | Value | Unit  | Organism | Test method                                          | Notes                |
| Acute toxicity, by oral route:                         | LD50     | >5000 | mg/kg | Rat      | OECD 420 (Acute Oral toxicity - Fixe Dose Procedure) | Analogous conclusion |

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|                                                                         |       |       |         |                        |                                                                |                                                 |
|-------------------------------------------------------------------------|-------|-------|---------|------------------------|----------------------------------------------------------------|-------------------------------------------------|
| Acute toxicity, by dermal route:                                        | LD50  | >5000 | mg/kg   | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                               | Analogous conclusion                            |
| Acute toxicity, by inhalation:                                          | LC50  | >5,53 | mg/l/4h | Rat                    | OECD 403 (Acute Inhalation Toxicity)                           | Aerosol, Analogous conclusion                   |
| Skin corrosion/irritation:                                              |       |       |         | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Not irritant, Analogous conclusion              |
| Serious eye damage/irritation:                                          |       |       |         | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                      | Not irritant, Analogous conclusion              |
| Respiratory or skin sensitisation:                                      |       |       |         | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | No (skin contact), Analogous conclusion         |
| Germ cell mutagenicity:                                                 |       |       |         | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative, Analogous conclusion                  |
| Germ cell mutagenicity:                                                 |       |       |         |                        | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)       | Negative, Analogous conclusion Chinese hamster  |
| Germ cell mutagenicity:                                                 |       |       |         | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)          | Negative, Analogous conclusion                  |
| Germ cell mutagenicity:                                                 |       |       |         | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative, Analogous conclusion                  |
| Carcinogenicity:                                                        |       |       |         | Mouse                  | OECD 451 (Carcinogenicity Studies)                             | Negative, Analogous conclusion 78 weeks, dermal |
| Reproductive toxicity (Developmental toxicity):                         |       |       |         | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)               | Negative, Analogous conclusion dermal           |
| Reproductive toxicity:                                                  |       |       |         | Rat                    | OECD 421 (Reproduction/Developmental Toxicity Screening Test)  | Negative, Analogous conclusion oral             |
| Aspiration hazard:                                                      |       |       |         |                        |                                                                | Asp. Tox. 1                                     |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral:     | LOAEL | 125   | mg/kg   | Rat                    | OECD 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents) | Analogous conclusion                            |
| Symptoms:                                                               |       |       |         |                        |                                                                | gastrointestinal disturbances, diarrhoea        |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | 1000  | mg/kg   | Rabbit                 | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)              | Analogous conclusion                            |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,22  | mg/l    | Rat                    |                                                                | Dust, Mist, Analogous conclusion 4 weeks        |

## Distillates (petroleum), solvent-dewaxed heavy paraffinic

| Toxicity / effect              | Endpoint | Value | Unit  | Organism | Test method                    | Notes |
|--------------------------------|----------|-------|-------|----------|--------------------------------|-------|
| Acute toxicity, by oral route: | LD50     | >5000 | mg/kg | Rat      | OECD 401 (Acute Oral Toxicity) |       |

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|                                                                         |       |       |            |                        |                                                               |                                                 |
|-------------------------------------------------------------------------|-------|-------|------------|------------------------|---------------------------------------------------------------|-------------------------------------------------|
| Acute toxicity, by dermal route:                                        | LD50  | >5000 | mg/kg      | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                              |                                                 |
| Acute toxicity, by inhalation:                                          | LD50  | >5,53 | mg/l/4h    | Rat                    | OECD 403 (Acute Inhalation Toxicity)                          | Aerosol                                         |
| Skin corrosion/irritation:                                              |       |       |            | Rabbit                 | OECD 404 (Acute Dermal Irritation/Corrosion)                  | Not irritant, Analogous conclusion              |
| Serious eye damage/irritation:                                          |       |       |            | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                     | Not irritant, Analogous conclusion              |
| Respiratory or skin sensitisation:                                      |       |       |            | Guinea pig             | OECD 406 (Skin Sensitisation)                                 | No (skin contact), Analogous conclusion         |
| Germ cell mutagenicity:                                                 |       |       |            | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)            | Negative, Analogous conclusion                  |
| Germ cell mutagenicity:                                                 |       |       |            | Mammalian              | OECD 473 (In Vitro Mammalian Chromosome Aberration Test)      | Negative, Analogous conclusion Chinese hamster  |
| Germ cell mutagenicity:                                                 |       |       |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                    | Negative, Analogous conclusion                  |
| Germ cell mutagenicity:                                                 |       |       |            | Mouse                  | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)         | Negative, Analogous conclusion                  |
| Carcinogenicity:                                                        |       |       |            | Mouse                  | OECD 451 (Carcinogenicity Studies)                            | Negative, Analogous conclusion 78 weeks, dermal |
| Reproductive toxicity (Developmental toxicity):                         |       |       |            | Rat                    | OECD 414 (Prenatal Developmental Toxicity Study)              | Negative, Analogous conclusion dermal           |
| Carcinogenicity:                                                        |       |       |            | Mouse                  |                                                               | Female, Negative                                |
| Reproductive toxicity:                                                  |       |       |            | Rat                    |                                                               | Negative                                        |
| Reproductive toxicity (Effects on fertility):                           |       |       |            | Rat                    | OECD 421 (Reproduction/Developmental Toxicity Screening Test) | Negative, Analogous conclusion oral, dermal     |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | ~1000 | mg/kg bw/d | Rabbit                 | OECD 410 (Repeated Dose Dermal Toxicity - 90-Day)             | Analogous conclusion                            |
| Aspiration hazard:                                                      |       |       |            |                        |                                                               | Yes                                             |
| Symptoms:                                                               |       |       |            |                        |                                                               | mucous membrane irritation, dizziness, nausea   |
| Specific target organ toxicity - repeated exposure (STOT-RE), dermal:   | NOAEL | 30    | mg/kg/d    | Rat                    | OECD 411 (Subchronic Dermal Toxicity - 90-day Study)          | Analogous conclusion                            |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,22  | mg/l       | Rat                    |                                                               | Aerosol, Analogous conclusion 4 weeks           |

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|                                                                         |       |      |      |     |  |                                        |
|-------------------------------------------------------------------------|-------|------|------|-----|--|----------------------------------------|
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,15 | mg/l | Rat |  | Aerosol, Analogous conclusion 13 weeks |
|-------------------------------------------------------------------------|-------|------|------|-----|--|----------------------------------------|

## Distillates (petroleum), hydrotreated light naphthenic

| Toxicity / effect                  | Endpoint | Value | Unit    | Organism   | Test method                                  | Notes                                   |
|------------------------------------|----------|-------|---------|------------|----------------------------------------------|-----------------------------------------|
| Acute toxicity, by oral route:     | LD50     | >5000 | mg/kg   | Rat        | OECD 401 (Acute Oral Toxicity)               | Analogous conclusion                    |
| Acute toxicity, by dermal route:   | LD50     | >2000 | mg/kg   | Rabbit     | OECD 402 (Acute Dermal Toxicity)             |                                         |
| Acute toxicity, by inhalation:     | LC50     | >5,53 | mg/l/4h | Rat        | OECD 403 (Acute Inhalation Toxicity)         | Aerosol, Analogous conclusion           |
| Skin corrosion/irritation:         |          |       |         | Rabbit     | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant, Analogous conclusion      |
| Serious eye damage/irritation:     |          |       |         | Rabbit     | OECD 405 (Acute Eye Irritation/Corrosion)    | Not irritant                            |
| Respiratory or skin sensitisation: |          |       |         | Guinea pig | OECD 406 (Skin Sensitisation)                | No (skin contact), Analogous conclusion |
| Aspiration hazard:                 |          |       |         |            |                                              | Yes                                     |

## Reaction products of benzenesulfonic acid, mono-C20-24 (even)-sec-alkyl derivs. para-, calcium salts

| Toxicity / effect                                                   | Endpoint | Value  | Unit       | Organism  | Test method                                                    | Notes             |
|---------------------------------------------------------------------|----------|--------|------------|-----------|----------------------------------------------------------------|-------------------|
| Acute toxicity, by oral route:                                      | LD50     | >=5000 | mg/kg      | Rat       | OECD 401 (Acute Oral Toxicity)                                 |                   |
| Acute toxicity, by dermal route:                                    | LD50     | >=5000 | mg/kg      | Rabbit    | OECD 402 (Acute Dermal Toxicity)                               |                   |
| Skin corrosion/irritation:                                          |          |        |            |           | OECD 404 (Acute Dermal Irritation/Corrosion)                   | Not irritant      |
| Serious eye damage/irritation:                                      |          |        |            |           | OECD 405 (Acute Eye Irritation/Corrosion)                      | Not irritant      |
| Respiratory or skin sensitisation:                                  |          | <10    | %          |           |                                                                | No (skin contact) |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL    | >=500  | mg/kg bw/d | Mammalian | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) |                   |

## 1-(tert-dodecylthio)propan-2-ol

| Toxicity / effect                  | Endpoint | Value | Unit | Organism | Test method                                            | Notes         |
|------------------------------------|----------|-------|------|----------|--------------------------------------------------------|---------------|
| Respiratory or skin sensitisation: |          |       |      | Mouse    | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | Skin Sens. 1B |

## 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

| Toxicity / effect                | Endpoint | Value | Unit  | Organism | Test method                                            | Notes         |
|----------------------------------|----------|-------|-------|----------|--------------------------------------------------------|---------------|
| Acute toxicity, by oral route:   | LD50     | 1500  | mg/kg | Rat      | OECD 425 (Acute Oral Toxicity - Up-and-Down Procedure) |               |
| Acute toxicity, by dermal route: | LD50     | >2000 | mg/kg | Rabbit   | OECD 402 (Acute Dermal Toxicity)                       |               |
| Skin corrosion/irritation:       |          |       |       | Rabbit   | OECD 404 (Acute Dermal Irritation/Corrosion)           | Skin Corr. 1C |

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|                                                                     |       |    |            |             |                                                          |                                         |
|---------------------------------------------------------------------|-------|----|------------|-------------|----------------------------------------------------------|-----------------------------------------|
| Serious eye damage/irritation:                                      |       |    |            | Rabbit      |                                                          | Eye Dam. 1                              |
| Respiratory or skin sensitisation:                                  |       |    |            | Guinea pig  | OECD 406 (Skin Sensitisation)                            | No (skin contact), Analogous conclusion |
| Germ cell mutagenicity:                                             |       |    |            | Mouse       | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)    | Negative, Analogous conclusion          |
| Germ cell mutagenicity:                                             |       |    |            | Human being | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative, Analogous conclusion          |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 12 | mg/kg bw/d | Rat         |                                                          |                                         |

## 11.2. Information on other hazards

| MOBIL ATF 220                    |          |       |      |          |             |                                                                       |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Toxicity / effect                | Endpoint | Value | Unit | Organism | Test method | Notes                                                                 |
| Endocrine disrupting properties: |          |       |      |          |             | Does not apply to mixtures.                                           |
| Other information:               |          |       |      |          |             | No other relevant information available on adverse effects on health. |

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

| MOBIL ATF 220                            |          |      |       |      |          |             |                                                                       |
|------------------------------------------|----------|------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| Toxicity / effect                        | Endpoint | Time | Value | Unit | Organism | Test method | Notes                                                                 |
| 12.1. Toxicity to fish:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to daphnia:               |          |      |       |      |          |             | n.d.a.                                                                |
| 12.1. Toxicity to algae:                 |          |      |       |      |          |             | n.d.a.                                                                |
| 12.2. Persistence and degradability:     |          |      |       |      |          |             | n.d.a.                                                                |
| 12.3. Bioaccumulative potential:         |          |      |       |      |          |             | n.d.a.                                                                |
| 12.4. Mobility in soil:                  |          |      |       |      |          |             | n.d.a.                                                                |
| 12.5. Results of PBT and vPvB assessment |          |      |       |      |          |             | n.d.a.                                                                |
| 12.6. Endocrine disrupting properties:   |          |      |       |      |          |             | Does not apply to mixtures.                                           |
| 12.7. Other adverse effects:             |          |      |       |      |          |             | No information available on other adverse effects on the environment. |

| Distillates (petroleum), hydrotreated heavy paraffinic |           |      |       |      |                     |                                      |                      |
|--------------------------------------------------------|-----------|------|-------|------|---------------------|--------------------------------------|----------------------|
| Toxicity / effect                                      | Endpoint  | Time | Value | Unit | Organism            | Test method                          | Notes                |
| 12.1. Toxicity to fish:                                | LL50      | 96h  | >100  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | Analogous conclusion |
| 12.1. Toxicity to fish:                                | NOEC/NOEL | 28d  | >1000 | mg/l | Oncorhynchus mykiss | QSAR                                 |                      |

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|                                          |           |     |       |      |                              |                                                                    |                                                 |
|------------------------------------------|-----------|-----|-------|------|------------------------------|--------------------------------------------------------------------|-------------------------------------------------|
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d | 10    | mg/l | Daphnia magna                | QSAR                                                               | Analogous conclusion                            |
| 12.1. Toxicity to daphnia:               | EC50      | 48h | >1000 | mg/l | Daphnia magna                | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion                            |
| 12.1. Toxicity to algae:                 | EC50      | 48h | >100  | mg/l | Pseudokirchneria subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                                 |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h | >=100 | mg/l | Pseudokirchneria subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            | Analogous conclusion                            |
| 12.2. Persistence and degradability:     |           | 28d | 31    | %    | activated sludge             | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable, Analogous conclusion |
| 12.2. Persistence and degradability:     |           | 28d | 6     | %    |                              | OECD 301 B (Ready Biodegradability - Co2 Evolution Test)           | Not readily biodegradable                       |
| 12.3. Bioaccumulative potential:         | Log Pow   |     | 3,9-6 |      |                              |                                                                    | High                                            |
| 12.5. Results of PBT and vPvB assessment |           |     |       |      |                              |                                                                    | No PBT substance, No vPvB substance             |
| Other information:                       | AOX       |     | 0     | %    |                              |                                                                    |                                                 |

## Distillates (petroleum), solvent-dewaxed heavy paraffinic

| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism                | Test method                                              | Notes                |
|--------------------------------------|-----------|------|-------|------|-------------------------|----------------------------------------------------------|----------------------|
| 12.1. Toxicity to fish:              | LC50      | 96h  | >1000 | mg/l | Salmo gairdneri         |                                                          |                      |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >5000 | mg/l | Oncorhynchus mykiss     | OECD 203 (Fish, Acute Toxicity Test)                     |                      |
| 12.1. Toxicity to fish:              | NOEC/NOEL | 21d  | 1000  | mg/l | Oncorhynchus mykiss     | QSAR                                                     |                      |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >100  | mg/l | Pimephales promelas     | OECD 203 (Fish, Acute Toxicity Test)                     | Analogous conclusion |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 10    | mg/l | Daphnia magna           | OECD 211 (Daphnia magna Reproduction Test)               | Analogous conclusion |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | >1000 | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)         | Analogous conclusion |
| 12.1. Toxicity to algae:             | EC50      | 96h  | >1000 | mg/l | Scenedesmus subspicatus |                                                          |                      |
| 12.2. Persistence and degradability: |           | 28d  | 6     | %    |                         | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Analogous conclusion |

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|                                          |         |     |       |      |                         |                                                                    |                                                  |
|------------------------------------------|---------|-----|-------|------|-------------------------|--------------------------------------------------------------------|--------------------------------------------------|
| 12.2. Persistence and degradability:     |         | 28d | 31    | %    | activated sludge        | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily biodegradable (Analogous conclusion) |
| 12.3. Bioaccumulative potential:         | Log Pow |     | >3    |      |                         |                                                                    | Low                                              |
| 12.5. Results of PBT and vPvB assessment |         |     |       |      |                         |                                                                    | No PBT substance, No vPvB substance              |
| Toxicity to bacteria:                    | EC20    | 6h  | >1000 | mg/l | Pseudomonas fluorescens |                                                                    |                                                  |

## Distillates (petroleum), hydrotreated light naphthenic

| Toxicity / effect                        | Endpoint  | Time | Value  | Unit | Organism                     | Test method                                                        | Notes                                                                       |
|------------------------------------------|-----------|------|--------|------|------------------------------|--------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 12.1. Toxicity to fish:                  | LC50      | 96h  | >100   | mg/l | Pimephales promelas          | OECD 203 (Fish, Acute Toxicity Test)                               |                                                                             |
| 12.1. Toxicity to daphnia:               | EC50      | 48h  | >10000 | mg/l | Daphnia magna                | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   |                                                                             |
| 12.1. Toxicity to daphnia:               | NOEC/NOEL | 21d  | 10     | mg/l | Daphnia magna                | OECD 211 (Daphnia magna Reproduction Test)                         |                                                                             |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | > 100  | mg/l | Pseudokirchneria subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                                                             |
| 12.1. Toxicity to algae:                 | NOEC/NOEL | 72h  | >100   | mg/l | Pseudokirchneria subcapitata | OECD 201 (Alga, Growth Inhibition Test)                            |                                                                             |
| 12.2. Persistence and degradability:     |           | 28d  | 31     | %    | activated sludge             | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Not readily but inherent biodegradable., Mechanical precipitation possible. |
| 12.5. Results of PBT and vPvB assessment |           |      |        |      |                              |                                                                    | No PBT substance, No vPvB substance                                         |
| Water solubility:                        |           |      |        |      |                              |                                                                    | Insoluble                                                                   |

## 1-(tert-dodecylthio)propan-2-ol

| Toxicity / effect          | Endpoint  | Time | Value | Unit | Organism            | Test method                                      | Notes |
|----------------------------|-----------|------|-------|------|---------------------|--------------------------------------------------|-------|
| 12.1. Toxicity to fish:    | LC50      | 96h  | 0,75  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to fish:    | NOEC/NOEL | 96h  | 0,56  | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test)             |       |
| 12.1. Toxicity to daphnia: | EC50      | 48h  | 0,58  | mg/l | Daphnia magna       | OECD 202 (Daphnia sp. Acute Immobilisation Test) |       |

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|                                      |           |     |        |      |                         |                                                                                          |  |
|--------------------------------------|-----------|-----|--------|------|-------------------------|------------------------------------------------------------------------------------------|--|
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 48h | 0,32   | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                                         |  |
| 12.1. Toxicity to daphnia:           | EC50      | 21d | 0,75   | mg/l | Daphnia magna           |                                                                                          |  |
| 12.1. Toxicity to algae:             | EC50      | 96h | >100   | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |  |
| 12.1. Toxicity to algae:             | NOEC/NOEL | 96h | 100    | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                                                  |  |
| 12.2. Persistence and degradability: |           | 28d | 5,9    | %    |                         | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)                       |  |
| 12.3. Bioaccumulative potential:     | Log Kow   |     | 5,7    |      |                         |                                                                                          |  |
| Toxicity to bacteria:                | EC50      | 3h  | >10000 | mg/l | activated sludge        | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) |  |

## 2,2'-(C16-18 (evennumbered, C18 unsaturated) alkyl imino) diethanol

| Toxicity / effect                    | Endpoint | Time | Value  | Unit | Organism                         | Test method                                                        | Notes                                       |
|--------------------------------------|----------|------|--------|------|----------------------------------|--------------------------------------------------------------------|---------------------------------------------|
| 12.1. Toxicity to fish:              | LC50     | 96h  | 0,1    | mg/l | Brachydanio rerio                | OECD 203 (Fish, Acute Toxicity Test)                               | Analogous conclusion                        |
| 12.1. Toxicity to daphnia:           | EC50     | 48h  | 0,043  | mg/l | Daphnia magna                    | OECD 202 (Daphnia sp. Acute Immobilisation Test)                   | Analogous conclusion                        |
| 12.1. Toxicity to daphnia:           | EC10     | 21d  | 0,0107 | mg/l | Daphnia magna                    | OECD 211 (Daphnia magna Reproduction Test)                         | Analogous conclusion                        |
| 12.1. Toxicity to algae:             | EC10     | 72h  | 0,0156 | mg/l | Pseudokirchnerie lla subcapitata |                                                                    | Analogous conclusion                        |
| 12.1. Toxicity to algae:             | EC50     | 72h  | 0,0538 | mg/l | Pseudokirchnerie lla subcapitata | IUCLID Chem. Data Sheet (ESIS)                                     | Analogous conclusion                        |
| 12.2. Persistence and degradability: |          | 28d  | 63     | %    |                                  | OECD 301 D (Ready Biodegradability - Closed Bottle Test)           | Readily biodegradable, Analogous conclusion |
| 12.2. Persistence and degradability: |          | 28d  | 75     | %    |                                  | OECD 301 F (Ready Biodegradability - Manometric Respirometry Test) | Readily biodegradable, Analogous conclusion |
| 12.3. Bioaccumulative potential:     | Log Pow  |      | 3,6    |      |                                  |                                                                    | Low                                         |

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|                                  |      |    |       |      |                  |                                                                                          |                      |
|----------------------------------|------|----|-------|------|------------------|------------------------------------------------------------------------------------------|----------------------|
| 12.3. Bioaccumulative potential: | BCF  |    | 110,2 |      |                  |                                                                                          | calculated           |
| Toxicity to bacteria:            | EC50 | 3h | 167   | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.  
 Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

Observe regulations for disposal of old oil/waste.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

Do not perforate, cut up or weld uncleaned container.

Residues may present a risk of explosion.

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

Not applicable

14.4. Packing group:

Not applicable

14.5. Environmental hazards:

Not applicable

Tunnel restriction code:

Not applicable

Classification code:

Not applicable

LQ:

Not applicable

Transport category:

Not applicable

#### Transport by sea (IMDG-code)

14.1. UN number or ID number: Not applicable

14.2. UN proper shipping name:

Not applicable

14.3. Transport hazard class(es):

Not applicable

14.4. Packing group:

Not applicable

14.5. Environmental hazards:

Not applicable

Marine Pollutant:

Not applicable

EmS:

Not applicable

#### Transport by air (IATA)

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14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable

#### 14.6. Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

#### 14.7. Maritime transport in bulk according to IMO instruments

Non-dangerous material according to Transport Regulations.

### SECTION 15: Regulatory information

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

Observe restrictions:  
 Comply with trade association/occupational health regulations.

National requirements/regulations on safety and health protection must be applied when using work equipment.

#### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

### SECTION 16: Other information

Revised sections: 1, 7, 15  
 These details refer to the product as it is delivered.  
 Employee instruction/training in handling hazardous materials is required.

#### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used                             |
|-----------------------------------------------------------------------|----------------------------------------------------|
| Aquatic Chronic 3, H412                                               | Classification according to calculation procedure. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H330 Fatal if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H318 Causes serious eye damage.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H220 Extremely flammable gas.

Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Asp. Tox. — Aspiration hazard  
 Skin Sens. — Skin sensitization  
 Aquatic Acute — Hazardous to the aquatic environment - acute  
 Met. Corr. — Substance or mixture corrosive to metals  
 Acute Tox. — Acute toxicity - oral  
 Skin Corr. — Skin corrosion  
 Eye Dam. — Serious eye damage  
 Flam. Gas — Flammable gases - Flammable gas

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Acute Tox. — Acute toxicity - inhalation

## Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.  
Guidelines for the preparation of safety data sheets as amended (ECHA).  
Guidelines on labelling and packaging according to the Regulation (EC) No 1272/2008 (CLP) as amended (ECHA).  
Safety data sheets for the constituent substances.  
ECHA Homepage - Information about chemicals.  
GESTIS Substance Database (Germany).  
German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).  
EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.  
National Lists of Occupational Exposure Limits for each country as amended.  
Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

## Any abbreviations and acronyms used in this document:

acc., acc. to according, according to  
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)  
AOX Adsorbable organic halogen compounds  
approx. approximately  
Art., Art. no. Article number  
ASTM ASTM International (American Society for Testing and Materials)  
ATE Acute Toxicity Estimate  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BSEF The International Bromine Council  
bw body weight  
CAS Chemical Abstracts Service  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
EC European Community  
ECHA European Chemicals Agency  
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ErCx, EmCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
etc. et cetera  
EU European Union  
EVAL Ethylene-vinyl alcohol copolymer  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
Koc Adsorption coefficient of organic carbon in the soil  
Kow octanol-water partition coefficient  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association

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IBC (Code) International Bulk Chemical (Code)  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCID International Uniform Chemical Information Database  
IUPAC International Union for Pure Applied Chemistry  
LC50 Lethal Concentration to 50 % of a test population  
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute for Occupational Safety and Health (USA)  
NLP No-longer-Polymer  
NOEC, NOEL No Observed Effect Concentration/Level  
OECD Organisation for Economic Co-operation and Development  
org. organic  
OSHA Occupational Safety and Health Administration (USA)  
PBT persistent, bioaccumulative and toxic  
PE Polyethylene  
PNEC Predicted No Effect Concentration  
ppm parts per million  
PVC Polyvinylchloride  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
SVHC Substances of Very High Concern  
Tel. Telephone  
TOC Total organic carbon  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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