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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 17.01.2022 / 0018  
Replacing version dated / version: 01.11.2021 / 0017  
Valid from: 17.01.2022  
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Synthoil Longtime 0W-30

## 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

### Synthoil Longtime 0W-30

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

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

Motor oil

##### Uses advised against:

No information available at present.

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

LIQUI MOLY GmbH  
Jerg-Wieland-Str. 4  
89081 Ulm-Lehr  
Tel.: (+49) 0731-1420-0  
Fax: (+49) 0731-1420-88

Qualified person's e-mail address: info@chemical-check.de, 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:

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

+49 (0) 700 / 24 112 112 (LMR)  
+1 872 5888271 (LMR)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### 2.2 Label elements

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

EUH208-Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.  
EUH210-Safety data sheet available on request.

#### 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 %).

Product floats on the water surface.

Product can re-ignite itself.

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

|  |                       |
|--|-----------------------|
| <b>1-Decene, homopolymer, hydrogenated</b>                             |                       |
| Registration number (REACH)  | 01-2119486452-34-XXXX |
| Index  | ---                   |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | 500-183-1             |
| CAS  | 68037-01-4            |
| content %  | 20-<40                |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304     |

|  |                   |
|--|-------------------|
| <b>Highly refined mineral oil (C15 - C50) *</b>                        |                   |
| Registration number (REACH)  | ---               |
| Index  | ---               |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | ---               |
| CAS  | ---               |
| content %  | 1-<10             |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |

|   |   |
|---|---|
| <b>Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts</b> |   |
| Registration number (REACH)   | 01-2119657973-23-XXXX                       |
| Index   | ---   |
| EINECS, ELINCS, NLP, REACH-IT List-No.  | 272-238-5                                   |
| CAS   | 68784-31-6                                  |
| content %   | 1-<2,5                                      |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors                        | Eye Dam. 1, H318<br>Aquatic Chronic 2, H411 |

|   |                     |
|---|---------------------|
| <b>Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts</b> |                     |
| Registration number (REACH)   | ---                 |
| Index   | ---                 |
| EINECS, ELINCS, NLP, REACH-IT List-No.  | 682-816-2           |
| CAS   | 722503-68-6         |
| content %   | 0,1-<1              |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors                  | Skin Sens. 1B, H317 |

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.  
 For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

\* The contained mineral oil can be described by one or more of the following numbers:

| EINECS, ELINCS, NLP, REACH-IT List-No. | Registration number (REACH) | Chemical name  |
|--|-----------------------------|--|
| 265-090-8                              | --                          | Baseoil - unspecified  |
| 265-091-3                              | --                          | Distillates (petroleum), solvent-refined light paraffinic            |
| 265-097-6                              | --                          | Distillates (petroleum), solvent-refined heavy naphthenic            |
| 265-098-1                              | --                          | Distillates (petroleum), solvent-refined light naphthenic            |
| 265-101-6                              | --                          | Baseoil - unspecified  |
| 265-156-6                              | --                          | Distillates (petroleum), hydrotreated light naphthenic               |
| 265-157-1                              | 01-2119484627-25-XXXX       | Distillates (petroleum), hydrotreated heavy paraffinic               |
| 265-158-7                              | 01-2119487077-29-XXXX       | Distillates (petroleum), hydrotreated light paraffinic               |
| 265-159-2                              | --                          | Distillates (petroleum), solvent-dewaxed light paraffinic            |
| 265-169-7                              | 01-2119471299-27-XXXX       | Distillates (petroleum), solvent-dewaxed heavy paraffinic            |
| 276-737-9                              | --                          | Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based |
| 276-738-4                              | --                          | Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based |
| 278-012-2                              | --                          | Baseoil - unspecified  |
| 265-155-0                              | --                          | Baseoil - unspecified  |
| 276-735-8                              | --                          | Lubricating oils (petroleum), C>25, hydrotreated bright stock-based  |
| 276-736-3                              | --                          | Baseoil - unspecified  |

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|           |    |  |
|-----------|----|--|
| 265-096-0 | -- | Residual oils (petroleum), solvent deasphalted     |
| 265-160-8 | -- | Residual oils (petroleum), hydrotreated            |
| 265-161-3 | -- | Lubricating oils (petroleum), hydrotreated spent   |
| 265-166-0 | -- | Residual oils (petroleum), solvent-dewaxed         |
| 265-176-5 | -- | Paraffin oils (petroleum), catalytic dewaxed light |

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!  
 Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.

#### 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.

#### 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 - give copious water to drink. Consult doctor immediately.  
 Danger of aspiration.

### 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.

The following may occur:

Irritation of the eyes  
 Allergic reaction possible.

With long-term contact:

Product removes fat.  
 Drying of the skin.  
 Irritation of the skin.

Heating:

Irritating vapours  
 Irritant to mucosa of the nose and throat

In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

### 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

CO<sub>2</sub>  
 Foam  
 Extinction powder

#### 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:

Fume  
 Oxides of carbon  
 Flammable vapour/air mixtures  
 Hot product gives off combustible vapours.

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### 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.

Leave the danger zone if possible, use existing emergency plans if necessary.

Ensure sufficient supply of air.

Avoid formation of oil mist.

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

Soak up with absorbent material (e.g. universal binding agent) and dispose of according to Section 13.

### 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 aerosol formation.

Keep away from sources of ignition - Do not smoke.

Do not heat to temperatures close to flash point.

Avoid contact with eyes or skin.

Do not carry cleaning cloths soaked in product in trouser pockets.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

#### 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

Not to be stored in gangways or stair wells.

Store product closed and only in original packing.

Protect against moisture and store closed.

Do not store over 45°C.

### 7.3 Specific end use(s)

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No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name   | Oil mist, mineral      | Content %: |
|---|------------------------|------------|
| 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: --- |            |

| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |  |                             |            |         |       |      |
|--|--|-----------------------------|------------|---------|-------|------|
| Area of application  | Exposure route / Environmental compartment           | Effect on health            | Descriptor | Value   | Unit  | Note |
|  | Environment - water                                  |                             | PNEC       | 4       | µg/l  |      |
|  | Environment - marine                                 |                             | PNEC       | 4,6     | µg/l  |      |
|  | Environment - water, sporadic (intermittent) release |                             | PNEC       | 4,4     | µg/l  |      |
|  | Environment - sediment, marine                       |                             | PNEC       | 0,00701 | mg/kg |      |
|  | Environment - soil                                   |                             | PNEC       | 0,0548  | mg/kg |      |
|  | Environment - oral (animal feed)                     |                             | PNEC       | 8,33    | mg/kg |      |
|  | Environment - sewage treatment plant                 |                             | PNEC       | 3,8     | mg/l  |      |
| Consumer   | Human - dermal                                       | Long term, systemic effects | DNEL       | 4,8     | mg/kg |      |
| Consumer   | Human - oral   | Long term, systemic effects | DNEL       | 0,19    | mg/kg |      |
| Consumer   | Human - inhalation                                   | Long term, systemic effects | DNEL       | 1,67    | mg/kg |      |
| Workers / employees  | Human - dermal                                       | Long term, systemic effects | DNEL       | 9,6     | mg/kg |      |
| Workers / employees  | Human - inhalation                                   | Long term, systemic effects | DNEL       | 6,6     | mg/kg |      |

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.

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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.  
 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 with side protection (EN 166).

Skin protection - Hand protection:  
 Protective gloves, oil resistant (EN ISO 374).  
 If applicable  
 Protective Neoprene® / polychloroprene gloves (EN ISO 374).  
 Protective nitrile gloves (EN ISO 374).  
 Minimum layer thickness in mm:  
 >= 0,4  
 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 A2 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:   | Brown  |
| Odour:  | Characteristic                                       |
| Melting point/freezing point:                             | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | There is no information available on this parameter. |
| Flammability:   | Flammable  |
| Lower explosion limit:                                    | There is no information available on this parameter. |
| Upper explosion limit:                                    | There is no information available on this parameter. |
| Flash point:  | 230 °C   |
| Auto-ignition temperature:                                | There is no information available on this parameter. |

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|  |  |
|--|--|
| Decomposition temperature:                         | There is no information available on this parameter. |
| pH:  | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                               | 69,0 mm <sup>2</sup> /s (40°C)                       |
| Kinematic viscosity:                               | 12,0 mm <sup>2</sup> /s (100°C)                      |
| Solubility:  | Insoluble  |
| Partition coefficient n-octanol/water (log value): | Does not apply to mixtures.                          |
| Vapour pressure:                                   | There is no information available on this parameter. |
| Density and/or relative density:                   | 0,845 g/cm <sup>3</sup>                              |
| Relative vapour density:                           | There is no information available on this parameter. |
| Particle characteristics:                          | Does not apply to liquids.                           |

## 9.2 Other information

|                    |  |
|--------------------|--|
| Explosives:        | There is no information available on this parameter. |
| Oxidising liquids: | There is no information available on this parameter. |

## 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

Heating, open flame, ignition sources  
Protect from humidity.

### 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).

| Synthoil Longtime 0W-30                                       |          |       |      |          |             |        |
|---|----------|-------|------|----------|-------------|--------|
| 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. |

| 1-Decene, homopolymer, hydrogenated |          |       |      |          |             |             |
|-------------------------------------|----------|-------|------|----------|-------------|-------------|
| Toxicity / effect                   | Endpoint | Value | Unit | Organism | Test method | Notes       |
| Aspiration hazard:                  |          |       |      |          |             | Asp. Tox. 1 |

| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |          |       |      |          |             |       |
|--|----------|-------|------|----------|-------------|-------|
| Toxicity / effect  | Endpoint | Value | Unit | Organism | Test method | Notes |

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|   |       |       |            |                        |  |                      |
|---|-------|-------|------------|------------------------|--|----------------------|
| Acute toxicity, by oral route:                                      | LD50  | 2900  | mg/kg      | Rat                    | OECD 401 (Acute Oral Toxicity)                                 |                      |
| Acute toxicity, by dermal route:                                    | LD50  | >5000 | mg/kg      | Rabbit                 | OECD 402 (Acute Dermal Toxicity)                               |                      |
| Serious eye damage/irritation:                                      |       |       |            | Rabbit                 | OECD 405 (Acute Eye Irritation/Corrosion)                      | Eye Dam. 1           |
| Respiratory or skin sensitisation:                                  |       |       |            | Guinea pig             | OECD 406 (Skin Sensitisation)                                  | No (skin contact)    |
| Germ cell mutagenicity:   |       |       |            | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test)                     | Negative             |
| Germ cell mutagenicity:   |       |       |            | Mouse                  | OECD 474 (Mammalian Erythrocyte Micronucleus Test)             | Negative             |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 125   | mg/kg bw/d | Rat                    | OECD 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents) | Analogous conclusion |

**Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts**

| Toxicity / effect                  | Endpoint | Value | Unit | Organism | Test method | Notes                                    |
|------------------------------------|----------|-------|------|----------|-------------|--|
| Respiratory or skin sensitisation: |          |       |      |          |             | Yes (skin contact), Analogous conclusion |

**11.2. Information on other hazards**

| Synthoil Longtime 0W-30          |          |       |      |          |             |   |
|----------------------------------|----------|-------|------|----------|-------------|---|
| 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).

| Synthoil Longtime 0W-30                  |          |      |       |      |          |             |   |
|--|----------|------|-------|------|----------|-------------|---|
| 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:     |          |      |       |      |          |             | Isolate as much as possible with an oil separator.                    |
| 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. |



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|                    |  |  |  |  |  |  |  |
|--------------------|--|--|--|--|--|--|--|
| Other information: |  |  |  |  |  |  | DOC-elimination degree (complexing organic substance) $\geq$ 80%/28d: No |
|--------------------|--|--|--|--|--|--|--|

| 1-Decene, homopolymer, hydrogenated  |           |      |       |      |                         |  |          |
|--------------------------------------|-----------|------|-------|------|-------------------------|--|----------|
| Toxicity / effect                    | Endpoint  | Time | Value | Unit | Organism                | Test method  | Notes    |
| 12.3. Bioaccumulative potential:     | Log Kow   |      | >6,5  |      |                         |  | measured |
| 12.1. Toxicity to algae:             | LC50      | 72h  | >1000 | mg/l | Scenedesmus quadricauda |  |          |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | >1000 | mg/l | Daphnia magna           |  |          |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | 125   | mg/l | Daphnia magna           |  |          |
| 12.2. Persistence and degradability: |           | 28d  | 2     | %    |                         | OECD 301 D (Ready Biodegradability - Closed Bottle Test) |          |

| Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts |          |      |       |      |                         |   |                   |
|--|----------|------|-------|------|-------------------------|---|-------------------|
| Toxicity / effect  | Endpoint | Time | Value | Unit | Organism                | Test method   | Notes             |
| 12.1. Toxicity to fish:  | LL50     | 96h  | 4,4   | mg/l | Oncorhynchus mykiss     | OECD 203 (Fish, Acute Toxicity Test)                                |                   |
| 12.1. Toxicity to daphnia:   | EL50     | 48h  | 75    | mg/l | Daphnia magna           | OECD 202 (Daphnia sp. Acute Immobilisation Test)                    |                   |
| 12.1. Toxicity to algae:   | EL50     | 72h  | 410   | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test)                             |                   |
| 12.2. Persistence and degradability:   |          | 27d  | <5    | %    |                         | Regulation (EC) 440/2008 C.6 (DEGRADATION - CHEMICAL OXYGEN DEMAND) | Not biodegradable |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

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

Soaked polluted cloths, paper or other organic materials represent a fire hazard and should be controlled, collected and disposed of.  
 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.

Implement substance recycling.

E.g. suitable incineration plant.

#### 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.

## SECTION 14: Transport information

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## General statements

14.1. UN number or ID number: n.a.  
**Transport by road/by rail (ADR/RID)**  
 14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Classification code: n.a.  
 LQ: n.a.  
 14.5. Environmental hazards: Not applicable  
 Tunnel restriction code:

## Transport by sea (IMDG-code)

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 Marine Pollutant: n.a.  
 14.5. Environmental hazards: Not applicable

## Transport by air (IATA)

14.2. UN proper shipping name:  
 14.3. Transport hazard class(es): n.a.  
 14.4. Packing group: n.a.  
 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:  
 General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): 0,226 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: 3, 11

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

Not applicable

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).

H317 May cause an allergic skin reaction.  
 H304 May be fatal if swallowed and enters airways.  
 H318 Causes serious eye damage.  
 H411 Toxic to aquatic life with long lasting effects.

Asp. Tox. — Aspiration hazard  
 Eye Dam. — Serious eye damage  
 Aquatic Chronic — Hazardous to the aquatic environment - chronic  
 Skin Sens. — Skin sensitization

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### 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 (EG) Nr. 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, EµCx, 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

IBC (Code) International Bulk Chemical (Code)

IMDG-code International Maritime Code for Dangerous Goods

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incl. including, inclusive  
IUCLD 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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