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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)  
Revision date / version: 24.01.2025 / 0023  
Replacing version dated / version: 26.10.2022 / 0022  
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PDF print date: 05.06.2025  
Marine PWC Oil 10W-40

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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

#### 1.1 Product identifier

##### **Marine PWC Oil 10W-40**

#### 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

GB

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](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

Landspítali- The National University Hospital of Iceland, tel. +354 543 2222 or 112 (valid only for Iceland)

##### **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)**

Not applicable

#### 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 %).

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## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

| Baseoil - unspecified *                                                |                   |
|------------------------------------------------------------------------|-------------------|
| Registration number (REACH)                                            | ---               |
| Index                                                                  | ---               |
| EINECS, ELINCS, NLP, REACH-IT List-No.                                 | ---               |
| CAS                                                                    | ---               |
| content %                                                              | 1-5               |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Asp. Tox. 1, H304 |

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                                             |
|----------------------------------------|-----------------------------|-----------------------------------------------------------|
| 265-157-1                              | 01-2119484627-25-XXXX       | Distillates (petroleum), hydrotreated heavy paraffinic    |
| 265-158-7                              | 01-2119487077-29-XXXX       | Distillates (petroleum), hydrotreated light paraffinic    |
| 265-169-7                              | 01-2119471299-27-XXXX       | Distillates (petroleum), solvent-dewaxed heavy paraffinic |
| 265-159-2                              | 01-2119480132-48-XXXX       | Distillates (petroleum), solvent-dewaxed light paraffinic |

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.  
The addition of the highest concentrations listed here can result in a classification. Only when this classification is listed in Section 2 does it apply. In all other cases the total concentration is below the classification.

## 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. 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.  
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

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## Suitable extinguishing media

Foam

Dry extinguisher

Water jet spray

## 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

Oxides of nitrogen

Fume

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.

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

Avoid formation of oil mist.

Avoid inhalation, and 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.

Oil binder

### 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.

Do not heat to temperatures close to flash point.

Avoid contact with eyes.

Avoid long lasting or intensive contact with 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.

Do not store with flammable or self-igniting materials.

Protect against moisture and store closed.

Store cool.

### 7.3 Specific end use(s)

No information available at present.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

| Chemical Name                                                         | Oil mist, mineral |                                    |                        |
|-----------------------------------------------------------------------|-------------------|------------------------------------|------------------------|
| WEL-TWA: 5 mg/m3 (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 feed        |      |
| Consumer                                               | Human - inhalation                         | Long term, local effects    | DNEL       | 1,2   | 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             |      |
| Workers / employees                                    | Human - inhalation                         | Long term, local effects    | DNEL       | 5,6   | mg/m <sup>3</sup> |      |

GB - United Kingdom | WEL-TWA = Workplace Exposure Limit - Long-term exposure limit - 8-hour TWA (= time weighted average) reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/CE, 2017/164/EU). (9) = Respirable fraction (2004/37/CE, 2017/164/EU). (11) = Inhalable fraction (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 (2004/37/CE). |  
 | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit - 15-minute reference period (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU or 2019/1831/EU:  
 (8) = Inhalable fraction (2004/37/EC, 2017/164/EU). (9) = Respirable fraction (2004/37/EC, 2017/164/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 | BMGV = Biological monitoring guidance value (EH40/2005 Workplace exposure limits (Fourth Edition 2020)).  
 (EU) = Directive 98/24/EC or 2004/37/EC or SCOEL (Biological Limit Value - BLV, Recommendation from the Scientific Committee on Occupational Exposure Limits (SCOEL)) |  
 | Other information (EH40/2005 Workplace exposure limits (Fourth Edition 2020)): Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 (EU) = Directive 91/322/EEC, 98/24/EC, 2000/39/EC, 2004/37/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU or 2024/869/EU:  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (98/24/EC, 2004/37/CE), (14) = The substance can cause sensitisation of the skin (2004/37/CE), (15) = Substantial contribution to the total body burden via dermal exposure possible. |

### 8.2 Exposure controls

#### 8.2.1 Appropriate engineering controls

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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.  
 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 nitrile gloves (EN ISO 374).  
 Minimum layer thickness in mm:  
 0,5  
 Permeation time (penetration time) in minutes:  
 > 30  
 Protective hand cream recommended.  
 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.

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:                                      | Combustible.                                         |
| 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. |
| Decomposition temperature:                         | There is no information available on this parameter. |
| pH:                                                | Mixture is non-soluble (in water).                   |
| Kinematic viscosity:                               | 93,9 mm <sup>2</sup> /s (40°C)                       |
| Kinematic viscosity:                               | 14,10 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:                   | 0,848 g/ml                                           |
| Relative vapour density:                           | There is no information available on this parameter. |
| Particle characteristics:                          | Does not apply to liquids.                           |

## 9.2 Other information

|                    |                           |
|--------------------|---------------------------|
| 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

Heating, open flame, ignition sources

### 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).

| Marine PWC Oil 10W-40                                         |          |       |      |          |             |        |
|---------------------------------------------------------------|----------|-------|------|----------|-------------|--------|
| 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. |

| Baseoil - unspecified |          |       |      |          |             |       |
|-----------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect     | Endpoint | Value | Unit | Organism | Test method | Notes |

|                                                                         |  |  |  |  |  |                                         |
|-------------------------------------------------------------------------|--|--|--|--|--|-----------------------------------------|
| Respiratory or skin sensitisation:                                      |  |  |  |  |  | No (skin contact), Analogous conclusion |
| Specific target organ toxicity - single exposure (STOT-SE), inhalative: |  |  |  |  |  | Irritation of the respiratory tract     |
| Symptoms:                                                               |  |  |  |  |  | mucous membrane irritation              |

## 11.2. Information on other hazards

| Marine PWC Oil 10W-40            |          |       |      |          |             |                                                                       |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| 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).

| Marine PWC Oil 10W-40                    |          |      |       |      |          |             |                                                                       |
|------------------------------------------|----------|------|-------|------|----------|-------------|-----------------------------------------------------------------------|
| 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. |

| Baseoil - unspecified                |           |      |        |      |                     |                                                          |                           |
|--------------------------------------|-----------|------|--------|------|---------------------|----------------------------------------------------------|---------------------------|
| Toxicity / effect                    | Endpoint  | Time | Value  | Unit | Organism            | Test method                                              | Notes                     |
| 12.1. Toxicity to fish:              | LC50      | 96h  | >100   | mg/l | Pimephales promelas |                                                          |                           |
| 12.1. Toxicity to daphnia:           | EC50      | 48h  | >10000 | mg/l | Daphnia magna       |                                                          |                           |
| 12.1. Toxicity to daphnia:           | NOEC/NOEL | 21d  | >10    | mg/l | Daphnia magna       |                                                          |                           |
| 12.2. Persistence and degradability: |           | 28d  | 31     | %    |                     | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Not readily biodegradable |

## SECTION 13: Disposal considerations



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### 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

### 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)

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 national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

General hygiene measures for the handling of chemicals are applicable.

Regulation (EU) No 649/2012 'concerning the export and import of hazardous chemicals' must be adhered to, as the product contains a substance that falls within the scope of this Regulation.

Directive 2010/75/EU (VOC):

3,825 %

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

### 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.

H304 May be fatal if swallowed and enters airways.

Asp. Tox. — Aspiration hazard

### 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

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

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                                                                                                                                                                                                                   |
| incl.                                       | including, inclusive                                                                                                                                                                                                                                              |
| IUCLID                                      | 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                                                                                                                                                                                        |
| mg/kg bw                                    | mg/kg body weight                                                                                                                                                                                                                                                 |
| mg/kg bw/d, mg/kg bw/day                    | mg/kg body weight/day                                                                                                                                                                                                                                             |
| mg/kg dw                                    | mg/kg dry weight                                                                                                                                                                                                                                                  |
| mg/kg ww                                    | mg/kg wet weight                                                                                                                                                                                                                                                  |
| 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.                           | 6/7/8/9xx-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                                                                                                                                                                                                                          |

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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II (last amended by Regulation (EU) 2020/878)

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Marine PWC Oil 10W-40

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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