

Pulsarlube OL1(Multi Purpose OIL)

1. MANUFACTURER INFORMATION

- 1) Product Name : PULSARLUBE OL1 (Multi Purpose OIL)
- 2) Recommended use of the chemical and restrictions on use
 - A. Product description : Special adhesive oil
 - B. Restrictions on use : No uses known.
- 3) Supplier's details

Pulsarlube GmbH
Silostrasse 31b,
65929 Frankfurt am Main,
Germany

Telephone Number for Information:
Tel.: +49 69 8700766 - 62 / - 63
Fax : +49 69 8700766 - 69
sales.eu@pulsarlube.com

Emergency telephone number : +49 69 8700766 - 62 / - 63

2. HAZARDS IDENTIFICATION

- 1) Classification of the substance or mixture
Regulation (EC) No. 1272/2008
This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.
- 2) Label elements including precautionary statements
 - o Pictogram : Not applicable
 - o Signal word : Not applicable
 - o Hazard/Risk Statement : Not applicable.
 - o Precautionary Statement : Not applicable
- 3) Other Hazard Risk which do not included in the classification criteria
Product can build up a film on the water surface which can inhibit the oxygen exchange. See also sections 11, 12 and 15.

3. COMPOSITION/INFORMATION ON INGREDIENTS

General information

Chemical characterization

Additive, mineral oil.

Further Information

All concentrations are quoted as mass percentages for liquids and volume percentages for gases. Other substances which are not classified as dangerous are contained up to 100 %. This mixture does not contain any substance classified as dangerous, whose concentration exceeds the concentration limits described in article 3.2.2 (annex II, VO 1907/2006/EU). Full text of R- and H-phrases: see section 16.

PSDS (Product Safety Data Sheet)**4. FIRST AID MEASURES****General advice**

In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and dispose off safely. In case of skin irritation, seek medical treatment.

If inhaled

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

In case of eye contact

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

If swallowed

Do NOT induce vomiting. Call a physician immediately. Aspiration hazard:

5. FIRE FIGHTING MEASURES**Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂), Foam, Dry extinguishing powder, Use water spray jet to protect personnel and to cool endangered containers.

Unsuitable extinguishing media

Water.

Special hazards arising from the substance or mixture

The formation of combustible vapours is possible at temperatures above: Flash point.
Hot product may produce flammable vapours.

In case of fire may be liberated :

Pyrolysis products, toxic.

hydrocarbons.

Carbon dioxide.

Carbon monoxide.

Hydrogen sulphide (H₂S).

Nitrogen oxides (NO_x).

Phosphorus oxides.

Smoke.

Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Full protective suit.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Further information

B: Burning liquid or melting substances.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation as well as local exhaustion at critical locations.

Keep away from sources of ignition. - No smoking.

Avoid contact with skin and eyes.

Conditions to avoid: Inhalation.

PSDS (Product Safety Data Sheet)

Do not put any product-impregnated cleaning rags into your trouser pockets.
High slip hazard because of leaking or spilled product

Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not empty into drains.

If product enters soil, it will be mobile and may contaminate groundwater

Methods and materials for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in the section on waste disposal

Reference to other sections

See section 8 & 13.

7. HANDLING AND STORAGE

Precautions for safe handling**Advice on safe handling**

See section 6.1

Avoid contact with skin and eyes.

Keep away from sources of ignition. - No smoking.

Wash hands before breaks and after work.

All work processes must always be designed so that the following is excluded:

Generation/formation of mist

Advice on protection against fire and explosion

Take precautionary measures against static discharges.

Further information on handling

Do not put any product-impregnated cleaning rags into your trouser pockets.

The formation of combustible vapours is possible at temperatures above: Flash point

Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep/Store only in original container.

Advice on storage compatibility

Do not store together with: Spontaneous combustion.

Further information on storage conditions

Protect from moisture.

Keep in a cool place.

Keep only in the original container

Specific end uses

Observe technical data sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure limits**

ACGIH

- Not applicable

OSHA

- Not applicable

Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

Personal protective equipment**Protective and hygiene measures**

Take off immediately all contaminated clothing.

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Wash hands before breaks and after work. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.
Generation/formation of mist: Filtering device with filter or ventilator filtering device of type: A-P2.

Eye protection

Tightly sealed safety glasses.
German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hands protection

Examples of suitable protective gloves from the company KCL GmbH, D-36124 oak cellular, phone +49 (0) 6659 87300, E-mail are: vertrieb@kcl.de with the following specification (test according to EN374 In full contact / splash contact:

Camatril (Item no. : 731; material: nitrile, Minimum coat thickness: 0.33 mm, Breakthrough time: 480min)

Dermatril (Item no. : 740; material: nitrile, Minimum coat thickness: 0.11 mm, Breakthrough time: 30min)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the resultant standard EN374. The breakthrough times stated above are based on laboratory measurements of KCL to EN374 and are only authoritative for the recommended glove types. Protect skin by using skin protective cream.

Body protection

The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Chemical resistant safety shoes. with lead protection cap.

German Industry Norms (DIN) / European Norms (EN): DIN EN 344.

Environmental exposure controls

Technical measures to prevent exposure.

Organisational measures to prevent exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| a) Appearance | Liquid, Yellow, Brown |
| b) Odour | Characteristic |
| c) Odour threshold | no data available |
| d) pH | no data available |
| e) Melting point/freezing point | no data available |
| f) Initial boiling point and boiling range | > 320 °C |
| g) Flash point | > 220 °C DIN ISO 2592 |
| h) Evaporation rate | no data available |
| i) Flammability (solid, gas) | no data available |
| j) Upper/lower flammability or explosive limits | Upper 6,5 vol.%, Lower 0,6 vol, % |
| k) Vapor pressure | no data available |
| l) Solubility | Insoluble in Water |
| m) Vapor density | no data available |
| n) Relative density | 0,872 - 0,882 g/cm ³ @ 15 °C DIN 53217 |
| o) Partition coefficient: n-octanol/water | no data available |

PSDS (Product Safety Data Sheet)

| | | |
|------------------------------|-------------------------------|------------|
| p) ignition temperature | > 250 °C | ASTM E 659 |
| q) Decomposition temperature | no data available | |
| r) Viscosity | 90,0 - 110 mm ² /s | DIN 51562 |
| s) Formula mass | no data available | |

10. STABILITY AND REACTIVITY

Reactivity

See Section 9

Chemical stability

If product is stored and handled as prescribed it is stable.

Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

Conditions to avoid

Oxidizing agents, strong.

Incompatible materials

No data available.

Hazardous decomposition products

See section 5

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

- Respiratory tracts : no data available
- Oral : no data available
- Eye-Skin : no data available

- Acute toxic
 - There are no data available on the preparation/mixture itself
- Acute toxic
 - Classification: none.
 - The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].
- Irritation and corrosivity
 - Classification: none.
 - The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].
- Sensitising effects
 - Classification: none.
 - Frequently or prolonged contact with skin may cause dermal irritation
- STOT-repeated exposure
 - Classification: none.
 - The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].
- Carcinogenic/mutagenic/toxic effects for reproduction
 - This substance does not meet the criteria for classification as CMR category 1A or 1B according to CLP.
- Specific effects in experiment on an animal
 - There are no data available on the preparation/mixture itself.
- Additional information on tests
 - Frequently or prolonged contact with skin may cause dermal irritation.

12. ECOLOGICAL INFORMATION

toxicity

There are no data available on the preparation/mixture itself.

PSDS (Product Safety Data Sheet)

Classification: none.

The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].

Persistence and degradability

Not easily bio-degradable (according to OECD-criteria).

Product is not easily biodegradable. (Data apply to the main component.)

Bioaccumulative potential

There are no data available on the preparation/mixture itself.

Mobility in soil

There are no data available on the preparation/mixture itself.

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

Other adverse effects

Effects in sewage plants: Mechanical separation in a suitable sewage plant is possible.

13. DISPOSAL CONSIDERATIONS**Advice on disposal**

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".

Observe mixture permissions according to "Altölverordnung (Waste oil directive)".

Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Waste disposal number of waste from residues/unused products

130208 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; other engine, gear and lubricating oils Classified as hazardous waste.

Waste disposal number of used product

130208 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; other engine, gear and lubricating oils Classified as hazardous waste.

Waste disposal number of contaminated packaging

130208 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste engine, gear and lubricating oils; other engine, gear and lubricating oils Classified as hazardous waste.

Contaminated packaging

Dispose of waste according to applicable legislation.

Non-contaminated packages may be recycled.

Packing which cannot be properly cleaned must be disposed of.

Above all, Dispose of in accordance with all applicable federal, state and local regulations.

14. TRANSPORT INFORMATION**UN number**

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

ADR/RID: no data available

IMDG: no data available

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IATA: no data available

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollute: no IATA: no

Special precautions for user

- Local transport follows in accordance with Dangerous goods Safety Management Law.
- Package and transport follow in accordance with Department of Transportation (DOT) and other regulatory agency requirements.
- Air transport(IATA): Not subject to IATA regulations.
- EmS FIRE SCHEDULE : Not available
- EmS SPILLAGE SCHEDULE : Not available

Other applicable information

No dangerous good in sense of these transport regulations

15. REGULATORY INFORMATION

REGULATORY INFORMATION

- POPs Management Law
 - Not applicable
- Information of EU Classification
 - * Classification
 - * Risk Phrases
 - * Safety Phrase
- U.S. Federal regulations
 - * OSHA PROCESS SAFETY (29CFR1910.119)
 - Not applicable
 - * CERCLA Section 103 (40CFR302.4)
 - Not applicable
 - * EPCRA Section 302 (40CFR355.30)
 - Not applicable
 - * EPCRA Section 304 (40CFR355.40)
 - Not applicable
 - * EPCRA Section 313 (40CFR372.65)
 - Not applicable
- Rotterdam Convention listed ingredients
 - Not applicable
- Stockholm Convention listed ingredients
 - Not applicable
- Montreal Protocol listed ingredients
 - Not applicable
- German water hazard class
 - Not applicable
- Water contaminating class (D) : 1 - slightly water contaminating

Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

1) Source of the data

- (1) Chemical manufacturer's information : SDS(SAFETY DATA SHEET) Data
- (2) Chem Guide CAS DataBase
- (3) Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)

PSDS (Product Safety Data Sheet)

- (4) ECB-ESIS(European chemical Substances Information System)(<http://ecb.jrc.it/esis>)
 - (5) ECOTOX Database, EPA(<http://cfpub.epa.gov/ecotox>)
 - (6) IUCLID Chemical Data Sheet, EC-ECB
 - (7) International Chemical Safety Cards(ICSC)(<http://www.nihs.go.jp/ICSC>)
 - (8) TOXNET, U.S. National Library of Medicine(<http://toxnet.nlm.nih.gov>)
 - (9) The Chemical Database, The Department of Chemistry at the University of Akron
(<http://ull.chemistry.uakron.edu/erd>)
 - (10) Korea Information System for Chemical Safety, KISChem (<http://kischem.nier.go.kr>)
 - (11) Chemical information system (<http://ncis.nier.go.kr>)
 - (12) Grease Raw material manufacturer's information : PSDS(PRODUCT SAFETY DATA SHEET) Data
- 2) The first creation date : 2020.04.06
- 3) The number of times, and the final revision date : Revision times 00
The final revision date : 2020.04.06

Further information

Pulsarlube has prepared copyrighted Product Safety Datasheets to provide information on the different Pulsarlube automatic grease lubricator systems. As defined in above the text Pulsarlube automatic grease lubricator are manufactured articles, which do not result in exposure to a hazardous chemical under normal conditions of use. The information and recommendations set forth herein are made in good faith, for information only, and are believed to be accurate as of the date of preparation. However, Pulsarlube, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.