

Pulsarlube OL8 (Biodegradable OIL)

1. MANUFACTURER INFORMATION

- 1) Product Name : PULSARLUBE OL8 (Biodegradable OIL)
- 2) Recommended use of the chemical and restrictions on use
 - A. Product description : Lubricant for Industrial use
 - B. Restrictions on use : No uses known.
- 3) Supplier's details

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2. HAZARDS IDENTIFICATION

- 1) Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

- 2) Label elements including precautionary statements

- Pictogram : Not applicable
- Signal word : Not applicable
- Hazard/Risk Statement : Not applicable.
- Precautionary Statement : Not applicable

- Additional information:

The note EUH 210 may be omitted if the product is also delivered to the general public:

EUH208 Contains Reaction products of 4-methyl-2-pentanol and diphosphorus pentasulfide propoxylated, esterified with diphosphorus pentoxide, and salted by amines, C12-14-tert-alkyl. May produce an allergic reaction.

EUH210 Safety data sheet available on request

- 3) Other Hazard

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

PSDS (Product Safety Data Sheet)**3. COMPOSITION/INFORMATION ON INGREDIENTS****General information**

Chemical characterization : Mixtures

Description:

Mixture of substances that are not subject to labeling according to CLP and / or substances subject to labeling with a content below the limit of consideration according to CLP

Dangerous components : Void

Additional information : For the wording of the listed hazard phrases refer to section 16.

4. FIRST AID MEASURES**General advice**

Remove contaminated clothing.
Take affected persons out into the fresh air.
In case of persistent symptoms consult doctor.

In case of skin contact

Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.

If inhaled

Supply fresh air; consult doctor in case of complaints.

In case of eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

If swallowed

If symptoms persist consult doctor.
No neutralization attempt.
Do not induce vomiting.

Most important symptoms and effects, both acute and delayed

Gastric or intestinal disorders

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

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

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam

Unsuitable extinguishing media

Water with full jet

Special hazards arising from the substance or mixture

No further relevant information available

Advice for firefighters

Cool endangered containers with water spray from a safe distance.
Do not inhale explosion and combustion gases

Protective equipment: Wear self-contained respiratory protective device

Additional information

Cool endangered receptacles with water spray.
Contain escaping vapors with water.

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Pay attention to flashback

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

Particular danger of slipping on leaked/spilled product.

Ensure adequate ventilation

Keep away from ignition sources.

Environmental precautions

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

Methods and materials for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the material collected according to regulations.

Reference to other sections

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information

7. HANDLING AND STORAGE**Precautions for safe handling**

Store in cool, dry place in tightly closed receptacles.

Keep receptacles tightly sealed.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

No special measures required.

Information about fire - and explosion protection:

When heated the product forms flammable fumes.

Vapors are heavier than air. Explosive vapor - / air - mixtures may be formed avoid rake at high Temperatures

Conditions for safe storage, including any incompatibilities**Storage:**

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility:

Store away from oxidising agents.

Pharmaceuticals, food and feed additives including

Further information about storage conditions

Protect from frost.

Storage at + 0 to + 60 °C.

Storage class: 10

Specific end use(s) See product information sheet !

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical facilities: No further data; see item 7.

Control parameters**Exposure limits**

Ingredients with limit values that require monitoring at the workplace:

Additional information: The lists valid during the making were used as basis

Exposure controls.**Personal protective equipment**

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General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.
 Keep away from foodstuffs, beverages and feed.
 Wash hands before breaks and at the end of work.
 Do not inhale dust / smoke / mist.

Respiratory protection:

Recommendation in case of insufficient ventilation and extensive use:
 Use multi-purpose combination (U.S.) or type of filter ABEK (EN 14387).
 Respirators and components must be tested and approved under appropriate government standards such as NIOSH. (U.S.) or CEN (EU).
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands



Recommendation: Chemical resistant protective gloves (EN 374)

Material of gloves

Nitrile rubber, NBR

Chloroprene rubber, CR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application

Penetration time of glove material

Value for the permeation: Level 6 = >480

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 Supplementary note: The specifications are based on own tests, literature data and information of glove manufacturers, or is derived by analogy with similar substances. It should be noted, that the practical usage of a chemical-protective glove can in practice due to many influencing factors (eg temperature) may be considerably shorter than the permeation time determined through testing. Due to the large variety the instructions of the manufacturer must be observed.

Eye protection:



Use safety glasses according to EN 166 : 2001.

Body protection:

Impervious protective clothing

Non-slip shoes recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Fluid, Yellow
b) Odour	Odourless
c) Odour threshold	no data available
d) pH	no data available
e) Melting point/freezing point	<-10 °C
f) Initial boiling point and boiling range	Undetermined.
g) Flash point	> 240°C
h) Evaporation rate	no data available

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i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapor pressure	no data available
l) Solubility	Not miscible or difficult to mix.
m) Vapor density	no data available
n) Relative density	0.97 g/cm ³
o) Partition coefficient: n-octanol/water	>5
p) Auto-ignition temperature	Product is not selfigniting.
q) Decomposition temperature	no data available
r) Viscosity	Dynamic: no data available Kinematic: 460 mm ² /s V 100: 52.5 mm ² /s
s) Formula mass	no data available

10. STABILITY AND REACTIVITY

Reactivity

Reacts with strong oxidants and strong reducing agents under severe heat.

Chemical stability

The product is chemically stable under normal ambient conditions (room temperature).

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

No dangerous reactions known.

Conditions to avoid

Temperatures above 60 °C can lead to reduced shelf life of the product.

Incompatible materials

No further relevant information available

Hazardous decomposition products

Emergence of flammable gases / vapors on contact with strong oxidizing agent' s possible.

11. TOXICOLOGICAL INFORMATION

Information on the likely routes of exposure

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation : May cause skin irritation after repeated contact

Serious eye damage/irritation : May cause slight irritation to the eyes.

Respiratory or skin sensitization : Based on available data, the classification criteria are not met.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met

STOT-single exposure Based on available data, the classification criteria are not met

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met

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12. ECOLOGICAL INFORMATION
Toxicity

Aquatic toxicity : No further relevant information available

Persistence and degradability : No further relevant information available

Bioaccumulative potential : No further relevant information available

Mobility in soil : No further relevant information available.

Additional ecological information:
General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB : Not applicable

Other adverse effects : No further relevant information available

13. DISPOSAL CONSIDERATIONS
Waste treatment methods
Recommendation

Must be specially treated under adherence to official regulations.

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

13 02 07* readily biodegradable engine, gear and lubricating oils

Uncleaned packaging:
Recommendation:

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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

14. TRANSPORT INFORMATION
UN number

ADR: - IMDG: - IATA: - ADN : -

UN proper shipping name

ADR: no data available

IMDG: no data available

IATA: no data available

ADN : no data available

Transport hazard class(es)

ADR: - IMDG: - IATA: - ADN : - Class : -

Packaging group

ADR: - IMDG: - IATA: -

Environmental hazards

Marine pollute: no

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of Marpol and the IBC Code : Not applicable

UN "Model Regulation": -

PSDS (Product Safety Data Sheet)**15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 : Void

Hazard pictograms : Void

Signal word : Void

Hazard statements : Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed

Chemical safety assessment : A Chemical Safety Assessment has not been 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>)
- (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.