

# Pulsarlube PL10 (Motor Bearing Grease)

## 1. MANUFACTURER INFORMATION

- 1) Product Name : : Pulsarlube PL10 (Motor Bearing Grease)
- 2) Recommended use of the chemical and restrictions on use
  - A. Product description : An electrochemical automatic single point lubricator
  - B. Restrictions on use : Not available except the intended use of the product
- 3) Supplier's details
 

Pulsarlube GmbH	Telephone Number for Information:
Silostrasse 31b,	Tel.: +49 (0) 69-3399-7501
65929 Frankfurt am Main,	Fax : +49 (0) 69-3399-7503
Germany	info@pulsarlube.de

Emergency telephone number +49 (0) 69-3399-7501

## 2. HAZARDS IDENTIFICATION

- 1) Hazard / Risk Classification
  - Acute toxicity (oral) : Category5
  - Specific target organ toxicity(Single exposure) : Category3(Respiratory tract irritation)

### 2) Label elements including precautionary statements

- Pictogram



- Signal word : Warning
- Hazard/Risk Statement :
  - H303 May harmful if swallowed.
  - H335 May cause respiratory irritation.
- Precautionary Statement
  - <Prevention>
    - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
    - P271 Use only outdoors or in a well-ventilated area.
  - <Response>
    - P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
    - P312 Call a POISON CENTER or doctor/physician if you feel unwell.

## PSDS (Product Safety Data Sheet)

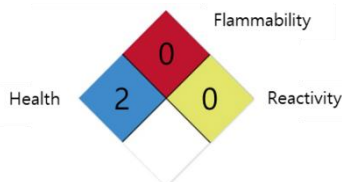
### <Storage>

P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up

### <Disposal>

P501 Dispose of contents/containers to ... in accordance with local/regional/national/international regulations (to be specified).

3) Other Hazard Risk which do not included in the classification criteria



### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Other name	CAS No	Content (%)
1. Residual oils (petroleum), Hydrotreated	Residual oils (petroleum), Hydrotreated	64742-57-0	35.0 ~ 45.0
2. Distillates (petroleum), Hydrotreated heavy paraffinic	Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	25.0 ~ 35.0
3. Sulfonic acids, petroleum, barium salts	SULFONIC ACIDS, PETROLEUM, BARIUM SALTS	61790-48-5	1.0 ~ 5.0
4. Secret (S1)	Secret (S1)	Secret (S1)	Secret (S1)

# Ingredients 1,2 DMSO Extract (mineral oil only), IP-346: < 3 %wt

### 4. FIRST AID MEASURES

#### General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### In case of skin contact

Wash skin with soap and copious amounts of water. Consult a physician.  
Wash contaminated clothing thoroughly with water before removing it, or wear gloves  
Remove contaminated clothing and shoe  
Get medical attention if adverse health effects persist or are severe

#### If inhaled

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

#### In case of eye contact

Thoroughly flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. If irritation persists, consult a physician.

#### If swallowed

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

### 5. FIRE FIGHTING MEASURES

#### Extinguishing media

**PSDS (Product Safety Data Sheet)****Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Use alcohol-resistant foam, dry chemical or carbon dioxide.

Avoid use of water jet for extinguishing

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

no data available

**Advice for firefighters**

Wear self-contained breathing apparatus for fire-fighting if necessary.

Cool containers with water until well after fire is out.

Keep unauthorized personnel out.

Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Keep containers cool with water spray

**Further information**

None

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

No action shall be taken involving any personal risk or without suitable training

**Environmental precautions**

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution.

**Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.

Dispose of via a licensed waste disposal contractor.

**Reference to other sections**

For disposal see section 13.

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

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist and avoid formation of dust and aerosols.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Remove contaminated clothing and protective equipment before entering eating areas

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic. air, light, and moisture sensitive. Store under inert gas.

Store in accordance with local regulations

**Specific end uses**

no data available

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters****Exposure limits**

○ ACGIH

- [Residual oils (petroleum), hydrotreated]: TWA 5 mg/m<sup>3</sup>, Inhalable particulate matter (Mineral oil, Pure, highly and

## PSDS (Product Safety Data Sheet)

severely refined)

- [Distillates (petroleum), hydrotreated heavy paraffinic]: TWA 5 mg/m<sup>3</sup>, Inhalable particulate matter (Mineral oil, Pure, highly and severely refined)

OSHA

- no data available

### Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Personal protective equipment

#### Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary

#### Eye protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

#### Hands protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

a) Appearance	Paste, Beige
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	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
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	Insoluble
m) Vapor density	no data available
n) Relative density	0.87 @ 20°C
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Formula mass	no data available

## 10. STABILITY AND REACTIVITY

### Chemical stability

This material is stable under recommended storage and handling conditions.

### Possibility of hazardous reactions

## PSDS (Product Safety Data Sheet)

Hazardous Polymerization will not occur.

### Conditions to avoid

Avoid contact with incompatible materials and condition.

Avoid : Accumulation of electrostatic charges, Heating, Flames and hot surface.

### Incompatible materials

no data available

### Hazardous decomposition products

May emit flammable vapour if involved in fire.

## 11. TOXICOLOGICAL INFORMATION

### Information on the likely routes of exposure

- Respiratory tracts :
  - May cause respiratory irritation.
- Oral :
  - May harmful if swallowed.
- Eye-Skin :
  - no data available
- Acute toxic
  - \* Oral - 2000mg/kg < ATEmix <= 5000mg/kg
  - [Residual oils (petroleum), hydrotreated] : LD50 >5000 mg/kg Rat (ECHA)
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 > 5000 mg/kg Rat (ECHA)
  - \* Dermal - ATE MIX : >5000mg/kg
  - [Residual oils (petroleum), hydrotreated] : LD50 >5000 mg/kg Rabbit (ECHA)
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : LD50 >5000 mg/kg Rabbit (ECHA)
  - \* Inhalation - ATE MIX : no data available
  - [Residual oils (petroleum), hydrotreated] : LC50 >5.53 mg/L/4hr (ECHA)
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : LC50 >5.53 mg/l 4 hr Rat (ECHA)
- Skin corrosion/irritation
  - no data available
- Serious eye damage/irritation
  - no data available
- Respiratory sensitization
  - no data available
- Skin sensitization
  - no data available
- Carcinogenicity
  - \* IARC
  - no data available
  - \* OSHA
  - no data available
  - \* ACGIH
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : A4
  - [Residual oils (petroleum), hydrotreated] : A4
  - \* NTP
  - no data available
  - \* EU CLP
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc.1B
  - [Residual oils (petroleum), hydrotreated] : Carc.1B
- Germ cell mutagenicity
  - no data available

**PSDS (Product Safety Data Sheet)**

- Reproductive toxicity
  - no data available
- STOT-single exposure
  - May cause respiratory irritation
- STOT-repeated exposure
  - no data available
- Aspiration hazard
  - no data available

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

- Fish
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : LC50 5000 mg/l 96 hr Oncorhynchus mykiss (IUCLID)
  - [Sulfonic acids, petroleum, barium salts] : LC50 0.00000159 mg/L 96hr (estimate)
  - [Secret] : Exceeded maximum Log Kow values
- Crustaceans
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 1000 mg/l 48 hr Daphnia magna (IUCLID)
  - [Sulfonic acids, petroleum, barium salts] : LC50 0.00000318 mg/L 48hr (estimate)
- Algae
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : EC50 1000 mg/l 96 hr Scenedesmus subspicatus (IUCLID)
  - [Sulfonic acids, petroleum, barium salts] : EC50 0.00000335 mg/L 96hr (estimate)

**Persistence and degradability**

- Persistence
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : log Kow = 3.9 ~ 6 (Estimate)
  - [Sulfonic acids, petroleum, barium salts] : log Kow 11.05 (Estimate)
  - [Secret] : log Kow 7.46 (estimate)
- Degradability
  - no data available

**Bioaccumulative potential**

- Bioaccumulative potential
  - [Secret] : BCF 1997 (Estimate)
- Biodegradation
  - [Distillates (petroleum), hydrotreated heavy paraffinic] : Biodegradability = 6 (%) 28 day(Aerobic, Domestic wastewater, does not decompose easily)

**Mobility in soil**

- [Secret] : Koc 13740 (Can be adsorbed in the soil)

**Other adverse effects**

- no data available

**13. DISPOSAL CONSIDERATIONS****Disposal methods**

Offer surplus and non-recyclable solutions to a licensed disposal company.  
Waste must be classified and labelled prior to recycling or disposal.  
Contact a licensed professional waste disposal service to dispose of this material.

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

**14. TRANSPORT INFORMATION**

## PSDS (Product Safety Data Sheet)

### UN number

ADR/RID: -      IMDG: -      IATA: -

### UN proper shipping name

ADR/RID: no data available

IMDG: no data available

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

## 15. REGULATORY INFORMATION

### REGULATORY INFORMATION

- POPs Management Law
  - Not applicable
- Information of EU Classification
  - \* Classification
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : Carc. Cat. 2; R45
    - [Residual oils (petroleum), hydrotreated] : Carc. Cat. 2; R45
  - \* Risk Phrases
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : R45
    - [Residual oils (petroleum), hydrotreated] : R45
  - \* Safety Phrase
    - [Distillates (petroleum), hydrotreated heavy paraffinic] : S53, S45
    - [Residual oils (petroleum), hydrotreated] : S53, S45
- 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

## 16. OTHER INFORMATION

**PSDS (Product Safety Data Sheet)**

## 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 : 2015.02.11

3) The number of times, and the final revision date : Revision times 03

The final revision date : 2017.06.12

**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 USA, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THIS INFORMATION AND DISCLAIMS ALL LIABILITY FROM REFERENCE ON IT.*