

Pulsarlube PL1 (Multipurpose Grease)

1. MANUFACTURER INFORMATION

1) Product Name : Pulsarlube PL1 (Multipurpose 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

KLT Co., Ltd.

34-12, Bangchon-ro 955beon-gil

Tanhyeon-myeon, Paju-si, Gyeonggi-do

Republic of Korea

Telephone Number for Information:

Tel.: +82 (2) 2135-3788

Fax : +82 (2) 2083-8485

sales.asia@pulsarlube.com

Emergency telephone number +82 (2) 2135-3788

2. Hazard(s) identification

1) Classification of the substance or mixture

GHS US classification

Not classified

2) GHS Label elements, including precautionary statements

GHS US labelling

No labelling applicable

3) Other hazards which do not result in classification

No additional information available

4) Unknown acute toxicity (GHS US)

Not applicable

3. Composition/information on ingredients

1) Substances

Not applicable

2) Mixtures

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

4. First-aid measures

1) Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

PSDS (Product Safety Data Sheet)

- First-aid measures after skin contact : Wash skin with plenty of water
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

2) Most important symptoms and effects (acute and delayed)

No additional information available

3) Immediate medical attention and special treatment, if necessary

Treat symptomatically.

5. Fire-fighting measures

1) Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

2) Specific hazards arising from the chemical

Suitable extinguishing media : Water spray. Dry powder. Foam.

3) Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental release measures

1) Personal precautions, protective equipment and emergency procedures

1-1) For non-emergency personnel

Emergency procedures : Ventilate spillage area.

1-2) For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

2) Environmental precautions

Avoid release to the environment.

3) Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product

Other information : Dispose of materials or solid residues at an authorized site.

4) Reference to other sections

For further information refer to section 13.

7. Handling and storage

1) Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

PSDS (Product Safety Data Sheet)

2) Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool

8. Exposure controls/personal protection

1) Control parameters

PL1
No additional information available

2) Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station

Environmental exposure controls : Avoid release to the environment.

3) Appropriate engineering controls

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

4) Personal protective equipment symbol(s):



9. Physical and chemical properties

1) Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Paste
Colour	: brown
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available

PSDS (Product Safety Data Sheet)

Relative density	: Approx. 0.92 at 20°C
Solubility	: Insoluble
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive limits	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available

2) Other information

No additional information available

10. Stability and reactivity
1) Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

2) Chemical stability

Stable under normal conditions.

3) Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

4) Conditions to avoid

None under recommended storage and handling conditions (see section 7).

5) Incompatible materials

No additional information available

6) Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced

11. Toxicological information
1) Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

PSDS (Product Safety Data Sheet)

Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable

12. Ecological information

1) Toxicity

Ecology - general

: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

2) Persistence and degradability

No additional information available

3) Bioaccumulative potential

No additional information available

4) Mobility in soil

No additional information available

5) Other adverse effects

No additional information available

13. Disposal considerations

1) Toxicity

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

14. Transport information

In accordance with DOT / TDG / IMDG / IATA

1) UN number

Not regulated for transport

2) UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

3) Transport hazard class(es)

DOT	: Not applicable
Transport hazard class(es) (DOT)	
TDG	: Not applicable
Transport hazard class(es) (TDG)	
IMDG	: Not applicable
Transport hazard class(es) (IMDG)	

PSDS (Product Safety Data Sheet)

IATA : Not applicable
Transport hazard class(es) (IATA)

4) Packing group

Packing group (DOT) : Not applicable
Packing group (TDG) : Not applicable
Packing group (IMDG) : Not applicable
Packing group (IATA) : Not applicable

5) Environmental hazards

Other information : No supplementary information available.

6) Special precautions for user

No additional information available

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

7) Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. Regulatory information**1) US Federal regulations**

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

2) International regulations**CANADA**

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

3) US State regulations

No additional information available

PSDS (Product Safety Data Sheet)**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 : 2015.02.11

3) The number of times, and the final revision date : Revision times 07

The final revision date : 2022.01.25

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.