

# 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. Telephone Number for Information:

34-12, Bangchon-ro 955beon-gil Tel.: +82 (2) 2135-3788
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### 2. Hazard(s) identification

### 1) Classification of the substance or mixture

GHS US classification

Hazardous to the aquatic environment

- Chronic Hazard, Category 4

Full text of H-statements: see section 16

H413 May cause long lasting harmful effects to aquatic life.

#### 2) GHS Label elements, including precautionary statements

GHS US labelling

Hazard statements (GHS US) H413 - May cause long lasting harmful effects to aquatic life.

Precautionary statements (GHS US) P273 - Avoid release to the environment.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional,

national and/or international regulation

#### 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

Name	Product identifier	%	GHS US classification
Distillates (petroleum),	CAS-No.: 64742-54-7	60 – 65	Carc. 1B, H350 Aquatic
hydrotreated heavy paraffinic			Chronic 4, H413
TALLOW	CAS-No.: 61789-97-7	0.1 – 5	Aquatic Chronic 4, H413

Full text of hazard classes and H-statements: see section 16

#### 4. First-aid measures

### 1) Description of first aid measures

First-aid measures general If you feel unwell, seek medical advice..

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

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)

Symptoms/effects after inhalation 
Dust of the product, if present, may cause respiratory irritation

after an excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this

material is expected to be an inhalation hazard

Symptoms/effects after skin contact None under normal conditions. Dust may cause irritation in skin

folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact None under normal conditions. Dust from this product may

cause eye irritation

#### 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. Unsuitable extinguishing media Do not use a heavy water stream

#### 2) Specific hazards arising from the chemical

Fire hazard No fire hazard

Explosion hazard No direct explosion hazard Hazardous decomposition products in Toxic fumes may be released

case of fire

#### 3) Special protective equipment and precautions for fire-fighters

Firefighting instructions Fight fire from safe distance and protected location. Do not enter

fire area without proper protective equipment, including

respiratory protection

Protection during firefighting Do not attempt to take action without suitable protective

equipment. Self-contained breathing apparatus. Complete

protective clothing



### 6. Accidental release measures

General measures Notify authorities if product enters sewers or public waters.

Absorb spillage to prevent material damage.

6.1) For non-emergency personnel

6.1.1) For non-emergency personnel

Protective equipment Wear recommended personal protective equipment.

Emergency procedures Ventilate spillage area.

6.1.2) 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".

Emergency procedures Evacuate unnecessary personnel

6.2) Environmental precautions

Avoid release to the environment.

6.3) Methods and material for containment and cleaning up

For containment Using a clean shovel, put the material in a dry container and

cover without compressing it.

Methods for cleaning up Mechanically recover the product.

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

6.4) Reference to other sections

For further information refer to section 13.

### 7. Handling and storage

1) Precautions for safe handling

Additional hazards when processed Not expected to present a significant hazard under anticipated

conditions of normal use.

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.

2) Conditions for safe storage, including any incompatibilities

Technical measures Keep in a cool, well-ventilated place away from heat.

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

Packaging materials Store always product in container of same material as

original container

### 8. Exposure controls/personal protection

1) Control parameters

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

Personal protective equipment:

Wear recommended personal protective equipment

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
рН	: 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
Relative density	: Approx. 0.92 at 20 <sup>-</sup> ℃
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

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral
	Toxicity)
LD50 dermal rabbit	> 5000 mg/kg Source: IUCLID

TALLOW (61789-97-7)	
LD50 oral rat	> 18000 mg/kg Source: International Uniform ChemicaL Information Database

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



Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline
	408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEC (inhalation, rat,	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation
dust/mist/fume, 90 days)	Toxicity: 28-Day Study)

Aspiration hazard : Not classified Viscosity, kinematic : Not applicable

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Viscosity, kinematic	1.99 - 847 mm <sup>2</sup> /s Temp.: '40°C' Parameter: 'mm <sup>2</sup> /smm2/s	

Symptoms/effects after Dust of the product, if present, may cause respiratory irritation after an

excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to

be an inhalation

Hazard Symptoms/effects after skin None under normal conditions. Dust may cause irritation in skin folds or

by contact in combination with tight

Clothing Symptoms/effects after eye

: None under normal conditions. Dust from this product may cause eye

Irritation Symptoms/effects after

: None under normal

### 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. May cause long lasting harmful effects to

aquatic life.

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 - Fish [1]	> 5000 mg/l
EC50 - Crustacea [1]	> 1000 mg/l Source: IUCLID
EC50 96h - Algae [1]	> 1000 mg/l Source: IUCLID

### 2) Persistence and degradability

Persistence and degradability  Not rapidly degradable	

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Persistence and degradability	Not rapidly degradable

TALLOW (61789-97-7)	
Persistence and degradability	Not rapidly degradable

### 3) Bioaccumulative potential

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Partition coefficient n-octanol/water	3.9 - 6 Source: IUCLID
(Log Pow)	



TALLOW (61789-97-7)	
Partition coefficient n-octanol/water	23.29 Source: Quantitative Structure Activity Relation
(Log Pow)	

### 4) Mobility in soil

No additional information available

### 5) Other adverse effects

No additional information available

### 13. Disposal considerations

1) Disposal methods

Regional waste regulation

Disposal must be done according to official regulations

Waste treatment methods

Dispose of contents/container in accordance with licensed

collector's sorting instructions

Sewage disposal recommendations

Product/Packaging disposal

recommendations

Disposal must be done according to official regulations Comply with applicable regulations for solid waste disposal. Disposal must be done according to official

regulations

Additional information Do not re-use empty containers

### 14. Transport information

In accordance with DOT / TDG / IMDG / IATA04

1) UN number

DOT NA No : Not applicable UN-No. (TDG) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IATA) : Not applicable

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)

ATA : 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

### 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):

Name	CAS-No.	Listing	Commercial status	Flags
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Present	Active	
TALLOW	61789-97-7	Present	Active	

### 2) International regulations

### **CANADA**

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Listed on the Canadian DSL (Domestic Substances List)	

TALLOW (61789-97-7)	
Listed on the Canadian DSL (Domestic Substances List)	

### **EU-Regulations**

No additional information available



#### **National regulations**

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

#### 3) US State regulations

No additional information available

#### 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:// 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 08

The final revision date: 2024.05.31

Full text of H-statements		
H350	May cause cancer.	
H413	May cause long lasting harmful effects to aquatic life.	

### **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.