

# 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

Pulsarlube USA, Inc.	Telephone Number for Information:
1480 Howard Street,	Tel.: +1 (847) 593-5300
Elk Grove Village,	Fax : +1 (847) 593-5303
IL 60007, USA	info@pulsarlube.com

Emergency telephone number : For Hazardous Materials [or Dangerous Goods] Incident  
 Spill, Leak, Fire, Exposure, or Accident  
 Call CHEMTREC Day or Night  
 Within USA and Canada: 1-800-424-9300 CCN723552 or  
 +1 703-527-3887 (collect calls accepted)

## 2. Hazard(s) identification

### 1) Classification of the substance or mixture

GHS US classification

Hazardous to the aquatic environment    H413 May cause long lasting harmful effects to aquatic life.  
 – Chronic Hazard, Category 4  
 Full text of H-statements: see section 16

### 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

## PSDS (Product Safety Data Sheet)

### 3. Composition/information on ingredients

#### 1) Substances

Not applicable

#### 2) Mixtures

Name	Product identifier	%	GHS US classification
Distillates (petroleum), hydrotreated heavy paraffinic	CAS-No.: 64742-54-7	60 – 65	Carc. 1B, H350 Aquatic 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
Symptoms/effects after ingestion	None under normal conditions

#### 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 case of fire	Toxic fumes may be released

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### 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

**PSDS (Product Safety Data Sheet)**

**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

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
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
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

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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

**PSDS (Product Safety Data Sheet)**

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, dust/mist/fume, 90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation 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> /s' mm <sup>2</sup> /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

PL1, SUPRESS 412MS	
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 (Log Pow)	3.9 - 6 Source: IUCLID

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

#### 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	Disposal must be done according to official regulations
Product/Packaging disposal recommendations	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)	
IATA	: Not applicable
Transport hazard class(es) (IATA)	

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**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



## PSDS (Product Safety Data Sheet)

### 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://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 : 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.*