

Pulsarlube PL4 (Food Machinery Grease)

1. MANUFACTURER INFORMATION

- 1) Product Name : Pulsarlube PL4 (Food Machinery 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 (69) 8700-766-62/-63
65929 Frankfurt am Main,	Fax : +49 (69) 8700-766-69
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Emergency telephone number +49 (69) 8700-766-62/-63

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 [CLP]:	Not classified as hazardous in accordance with Regulation (EC) No 1272/2008 [CLP].
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Label elements:

Labelling according to Regulation (EC) No 1272/2008 [CLP]:

Hazard	No danger
pictograms:	symbols required

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances:

Not applicable

Mixtures:

Chemical Name	%	CAS Number	EC No. REACH Registration No.	Classification (EC) No 1272/2008	M Factor	SCL
No Hazardous Ingredients						

For full text of H-statements see Section 16.

4. FIRST-AID MEASURES

Description of first aid measures:

Inhalation :	Remove individual to fresh air if any symptoms develop, as a precautionary measure.
Eye Contact :	Use an eye wash to remove a chemical from your eye regardless of the level of hazard. Flush the affected eye for at least twenty minutes. Tilt the head to prevent chemical from
Skin Contact :	Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion :	Do not induce vomiting. Seek medical attention immediately. Provide medical care provider with this SDS
Self protection of the first aider:	No data available

Most important symptoms/effects, acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed Consult a physician. Treat Consult a physician. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media:

Suitable extinguishing media: Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire

Special hazards arising from the substance or mixture:

Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

Hazardous Combustion Products

Oxides of carbon, Calcium oxides, Sulfur oxides, Hydrocarbons

Advice for firefighters:

Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use appropriate methods for the surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel: Non-emergency personnel should be kept clear of the area

Emergency responders: No health effects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section VIII of this SDS

Environmental precautions:

Prevent chemicals from entering the watercourse

Methods and material for containment and cleaning up:

Small spills: Refer to information provided for large spills

Large spills: Collect and discard in accordance with local, state and national regulations.

Reference to other sections:

Refer to section 13 for disposal information

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid unnecessary exposure

Conditions for safe storage, including any incompatibilities

Conditions for safe storage: Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents

Specific end use(s):

Grease, incidental food contact. For Industrial or Professional use only.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters:

Occupational Exposure limit values:

Chemical Name	8-hour (TWA)	Short-term exposure limit (STEL)	Biological Monitoring Guidance Values
No data available			

DNEL: None known

PNEC: None known

Exposure controls:

Appropriate engineering controls: General room ventilation might be required to maintain operator comfort under normal conditions of use.

Individual protection measures, such as personal protective equipment:

Eye and face protection: Wear safety glasses when handling this product.

Skin Protection:

Hand protection: Chemically resistant gloves

Other skin protection: Not normally considered a skin hazard. Where use of product can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Respiratory Protection:

Under normal conditions, a respirator is not normally required. If vapors, mists or aerosols are generated, wear a NIOSH approved respirator.

Thermal Hazards:

No data available

Environmental exposure controls:

No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Appearance:	: Viscous Liquid
Colour:	: White to off-white
Odour:	: Mild
	Petroleum Type
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point (°C)	
- Melting Point (°C)	: No data available
- Freezing point (°C)	: No data available
Initial boiling point and boiling range (°C)	: No data available
Flash Point	: > 446 °F (230 °C)
Evaporation Rate	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	
Upper flammable or explosive limit, % in air:	: No data available
Lower flammable or explosive limit, % in air:	: No data available
Vapor pressure	: No data available
Vapor density	: No data available
Relative density	: 1.04
Solubility(ies)	: Negligible; 0-1%
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature (°C)	: No data available
Decomposition Temperature (°C)	: No data available
Viscosity	: Typical 300000 - 400000 cP
Explosive properties:	: No data available
Oxidizing properties:	: No data available

Other information:

VOC, Material, g/l: : 0

10. STABILITY AND REACTIVITY

Reactivity :	Not expected to be reactive
Chemical stability :	Stable under normal conditions.
Possibility of hazardous reactions :	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid :	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition.,
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Under normal conditions of use & storage, decomposition and hazardous decomposition products are unlikely.

11. TOXICOLOGICAL INFORMATION

Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Not applicable			

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

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.

Information on other hazards:

Endocrine disrupting properties:

This product does not contain any substance at $\geq 0.1\%$ by weight, known to have endocrine disrupting properties in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) 2017/2100, or (EU) 2018/605.

Other information:

No data available

12. ECOLOGICAL INFORMATION

Toxicity:

Not classified as hazardous.

Ecological Toxicity Data:

Chemical Name	CAS Number	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Not applicable				

Persistence and degradability:

No data

Bioaccumulative potential:

No data available

Mobility in soil:

No data available

Results of PBT and vPvB

No data available

assessment:
Endocrine disrupting properties:

This product does not contain any substance at $\geq 0.1\%$ by weight, known to have endocrine disrupting properties in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) 2017/2100, or (EU) 2018/605.

Other adverse effects:

No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:
Disposal methods:

Spent or discarded material is not expected to be a hazardous waste. Waste should not be disposed of by discharge into the sewers.

Waste codes / waste designations according to LoW:

12 01 12* spent waxes and fats

14. TRANSPORT INFORMATION

International carriage of dangerous goods by road (ADR), rail or inland waterways:

UN number: Grease / Non-Hazardous

International carriage of dangerous goods by sea (IMDG/IMO):

UN number: Grease / Non-Hazardous

International carriage of dangerous goods by air (IATA):

UN number: Grease / Non-Hazardous

Environmental hazards: No

Special precautions for user: No data available

Transport in bulk according to Annex II of MARPOL and the IBC Code: No data available

15. REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)
Annex XIV
List of substances subject to authorization

None of the components are listed.

SVHC:

Does not contain substances of very high concern > 0.1%

Annex XVII
Restrictions on use.

Not applicable.

Ozone-depleting substances (1005/2009/EU).

Not listed.

Prior Inform Consent (PIC) (649/2012/EU).

Not listed.

Seveso Directive.

This product is not controlled under the Seveso Directive.

International Inventory

Country(s) or region	Inventory Name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippines Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Inventory	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

*A "No" indicates that one or more components of the product are not listed or are unknown from listing on the inventory administered by the governing country(s).

Chemical Safety Assessment No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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 : 17.03.2020

3) The number of times, and the final revision date : Revision times 02
The final revision date : 27.03.2025

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.