

Pulsarlube PL2 (Heavy Duty Grease)

1. MANUFACTURER INFORMATION

1) Product Name: Pulsarlube PL2 (Heavy Duty 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

Germany sales.eu@pulsarlube.com

Emergency telephone number: +49 69 8700-766 - 62 / - 63

2. Hazards identification

1) Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2) Label elements

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

EUH-statements : EUH210 - Safety data sheet available on request.

3) Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

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 REACH Annex II

4. First aid measures

1) Description of first aid measures

First-aid measures general

First-aid measures after inhalation First-aid measures after skin contact

First-aid measures after eye contact

First-aid measures after ingestion First-aid measures for first aider

: If you feel unwell, seek medical advice.

: Remove person to fresh air and keep comfortable for breathing.

: Wash skin with plenty of water.

: Rinse eyes with water as a precaution.

: Call a poison center or a doctor if you feel unwell.: First aid workers will be equipped with suitable personal

protective equipment.

2) Most important symptoms and effects, both acute and delayed

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

after 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) Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Firefighting measures

1) Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. **Unsuitable extinguishing media** : Do not use a heavy water stream.

2) Special hazards arising from the substance or mixture

Fire hazard : No fire hazard.

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

3) Advice for firefighters

case of fire

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

1) Personal precautions, protective equipment and emergency procedures

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

Absorb spillage to prevent material damage.



For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures : Ventilate spillage area.

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.

2) Environmental precautions

Avoid release to the environment.

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.

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.

Germany

Storage class (LGK, TRGS 510)

Joint storage table

: LGK 13 - Non-combustible solids

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for Joint storage with restrictions

permitted for

Joint storage permitted for

: LGK 1, LGK 6.2, LGK 7 : LGK 4.1A, LGK 5.1C

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK

10-13

Switzerland

Storage class (LK) : NG - Non-hazardous

3) Specific end use(s)

No additional information available

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according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878



8. Exposure controls/personal protection

1) Control parameters

National occupational exposure and biological limit values

No additional information available

Recommended monitoring procedures

No additional information available

Air contaminants formed

No additional information available

DNEL and PNEC

No additional information available

Control banding

No additional information available

2) Exposure controls

Appropriate engineering controls:

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Personal protective equipment symbol(s):







Eye and face protection

Eye protection : Safety glasses

Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazards

No additional information available

Environmental exposure controls

Environmental exposure controls: Avoid release to the environment.

9. Physical and chemical properties

1) Information on basic physical and chemical properties

Physical state : Solid **Appearance** : Paste. Colour : Black.

Odour : Characteristic. **Odour threshold** : No data available : No data available Relative evaporation rate : No data available

(butylacetate=1)

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Melting point : No data available Freezing point : Not applicable **Boiling point** : No data available Flash point : Not applicable **Auto-ignition temperature** : Not applicable **Decomposition temperature** : No data available Flammability (solid, gas) : Non flammable. : No data available Vapour pressure Relative vapour density at 20°C : No data available Relative density : Ca. 0.9 @ 20℃ : Insoluble. Solubility

Partition coefficient n- : No data available

octanol/water (Log Pow)

Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidising properties : No data available
Explosive limits : Not applicable

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 Carcinogenicity : Not classified Reproductive toxicity : Not classified : Not classified STOT-single exposure STOT-repeated exposure : Not classified Aspiration hazard : Not classified

Р	L2
Г	LZ

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.

Hazardous to the aquatic

environment, short-term (acute)

Hazardous to the aquatic

environment,

environment.

: Not classified

: Not classified

long-term (chronic)

2) Persistence and degradability

PL2	
Persistence and degradability	Not rapidly degradable

3) Bioaccumulative potential

No additional information available

4) Mobility in soil

No additional information available

5) Results of PBT and vPvB assessment

No additional information available

6) Other adverse effects

No additional information available

13. Disposal considerations

1) Waste treatment 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
Additional information

: Disposal must be done according to official regulations

: Comply with applicable regulations for solid waste disposal. Disposal must

be done according to official regulations.

itional information : Do not re-use empty containers.

14. Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
1) UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
2) UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
3) Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
4) Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
5) Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

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6) Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

7) Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

15. Regulatory information

1) Safety, health and environmental regulations/legislation specific for the substance or mixture EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Not listed on the United States TSCA (Toxic Substances Control Act) inventory



Germany

VOC ordinance (ChemVOCFarbV)

Employment restrictions

: Observe restrictions according Act on the Protection of Working Mothers

(MuSchG).

Observe restrictions according Act on the Protection of Young People in

Employment (JArbSchG).

: WGK 3, Highly hazardous to water (Classification according to AwSV, Annex Water hazard class (WGK)

Hazardous Incident Ordinance

(12. BlmSchV)

: Is not subject to the Hazardous Incident Ordinance (12. BlmSchV)

Netherlands

ABM category : Z(1) - non biodegradable substances with hazardous properties for humans

and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/

bioacumulative potential/ toxicity or persistence)

SZW-lijst van

kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische

stoffen - Borstvoeding

SZW-lijst van reprotoxische

stoffen -Vruchtbaarheid SZW-lijst van reprotoxische

stoffen - Ontwikkeling

: None of the components are listed

Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct

contact with the product

Poland

Polish National Regulations

Act of 25 February 2011 on chemical substances and their mixtures (J. o L.

No. 63, item

322 as amended; consolidated text J. o L. 2019, item 1225).

Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended;

consolidated text J. o L. 2020, item 797).

The announcement of Marshal of the Seim of the Republic of Poland dated 19

October

2016 concerning the consolidated text announcement of the decree on the

management of

packaging and packaging waste (J. o L. 2016, item 1863 as amended).

Decree of the Minister of Environment of 14 December 2014 on the catalogue

of waste (J. o

L. 2014, item 1923).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No.

1367 as amended; consolidated text J. o L. 2020, item 154).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018

on the

highest permissible concentration and intensity of noxious agents for health at

work

environment (J. o L. item 1286 as amended).

The announcement of Minister of Health dated 9 September 2016 concerning

consolidated text announcement of the decree of the Minister of Health of 30

December

2004 on health and safety at work related to exposure to chemical agents at

work (J. o L. of

16 September 2016, item 1488)

Regulation of the Minister of Health of 2 February 2011 on tests and

measurements of the

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noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).

Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous

substances to the environment (J. o L. No. 217, item 2141).

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of

amendments to Annexes A and B to the Agreement concerning the International Carriage of

Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

2) Chemical safety assessment

No chemical safety assessment has been carried out

16. Other information

1) Abbreviations an	d acronyms :	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting disruptor	
ACGIH	American Conference of Government Industrial Hygienists	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
CSA	Chemical safety assessment	
EWC	European waste catalogue	
Log Kow	Partition coefficient n-octanol/water (Log Kow)	

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878



Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
OSHA	Occupational Safety Health Administration
PPE	Personal protection equipment
TF	Technical function
TWA	Time Weighted Average
UFI	Unique Formula Identifier

Data sources his MSDS is prepared based on KOSHA, NITE, ESIS, NLM, SIDS, IPCS,

NCIS, etc.

Full text of H- and EUH-statements :

EUH210 : Safety data sheet available on request.

The classification complies with : ATP 12

2) The first creation date: 11.02.2015

3) The number of times, and the final revision date: Revision times 06

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