

Pulsarlube PL6 (Multipurpose Grease with MoS₂)

1. MANUFACTURER INFORMATION

1) Product Name : Pulsarlube PL6 (Multipurpose Grease with MoS_2)

Unique Formula Identifier (UFI) : UP00-U055-G007-Y4DV

- 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 (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 2 Long-term (chronic) aquatic hazard, Category 3

H361f: Suspected of damaging fertility H412: Harmful to aquatic life with long lasting effects.

2) Label elements Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



	Signal word	: Warning
	Hazard statements	H361f Suspected of damaging fertility.H412 Harmful to aquatic life with long lasting effects.
•	Precautionary statements	Prevention: P201 Obtain special instructions before use.

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according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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- P202 Do not handle until all safety precautions have been read and understood.P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Precautionary statements **Response:** P308 + P313 IF exposed or concerned: Get medical advice/ attention. **Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene

Additional Labelling

EUH208

Contains Fatty acids, C18-unsatd., dimers, compds. with 4, 5-dihydro- 2-nortall-oil alkyl 1H-imidazole-1-ethanol and tall-oil fatty acids, Succinic Anhydride, Alkylation Products With C12-Rich Branched Olefins From Propene Oligomerisation, Hydrolyzed, Esterification Products with propylene oxide. May produce an allergic reaction.

3) Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	68411-46-1 270-128-1	Aquatic Chronic 3; H412 Repr. 2; H361f	3 - 10
Distillates (petroleum), hy- drotreated light naphthenic; Baseoil — unspecified	64742-53-6 265-156-6 649-466-00-2	Asp. Tox. 1; H304 Acute Tox. 4; H332	1 - 10
Amines, C12-14-alkyl, C6-10-alkyl phosphates	68603-55-4 271-663-3	Skin irr. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 3; H412	1 - 2.5
Phenol, isobutylenated, phos- phate (3:1)	68937-40-6 273-065-8	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.25 - 1
Fatty acids, C18-unsatd., dimers, compds. with 4, 5-dihydro- 2- nortall-oil alkyl 1H-imidazole-1- ethanol and tall-oil fatty acids	948-074-1	Skin Sens. 1B; H317 Aquatic Chronic 3; H412	0.25 - 1
Succinic Anhydride, Alkylation Products With C12-Rich Branched Olefins From Propene Oligomeri- sation, Hydrolyzed, Esterification Products with propylene oxide	943-535-3	Eye Dam. 2; H319 Skin Sens. 1B; H317	0.1 - 1

For explanation of abbreviations see section 16.

PSDS (Product Safety Data Sheet) 4. FIRST AID MEASURES

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Description of first aid measures

If inhaled	: Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact	 In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.
	In the event of a known, or potential, high pressure injection injury, worker should obtain immediate medical evaluation
In case of eye contact	: Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	 Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.

Most important symptoms and effects, both acute and delayed

Risks	: First aider needs to protect himself.
	Suspected of damaging fertility.

Indication of any immediate medical attention and special treatment needed

at symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing	: Use extinguishing measures that are appropriate to local circumstances and the
media	surrounding environment.
Unsuitable extinguishing	: No information available.
media	

Special hazards arising from the substance or mixture

Specific hazards during firefighting	: Cool closed containers exposed to fire with water spray.
Hazardous combustion products	: Carbon oxides (CO, CO2), sulphur oxides (SOx), hydrogen sulphide (H2S), alkyl mercaptans, sulfides, smoke and irritat-ing vapours as products of incomplete combustion.

Advice for firefighters

Further information	: Prevent fire extinguishing water from contaminating surface water or the ground
	water system.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

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Personal precautions	: Use personal protective equipment.
	Ensure adequate ventilation.
	Evacuate personnel to safe areas.
	Material can create slippery conditions.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene.

Environmental precautions

Environmental	: Do not allow uncontrolled discharge of product into the envi-ronment.
precautions	

Methods and material for containment and cleaning up

Methods for cleaning up	: Prevent further leakage or spillage if safe to do so.
	Remove all sources of ignition.
	Soak up with inert absorbent material.
	Non-sparking tools should be used.
	Ensure adequate ventilation.
	Contact the proper local authorities.

Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

Precautions for safe handling Advice on safe handling	 For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat and sources of ignition. Keep container closed when not in use.
Advice on protection against fire and explosion	: None known.
Hygiene measures	: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any ex-posed skin thoroughly after handling.
Conditions for safe storage, ind Requirements for storage	cluding any incompatibilities : Store in original container. Containers which are opened must be carefully

Requirements for storage areas and containers	: Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers. To maintain product quality,
	do not store in heat or direct sunlight.

Specific end use(s)

Specific use(s) : For further information see Section 1 of the safety data sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational Exposure Limits Contains no substances with occupational exposure limit values.

Exposure controls

Engineering measures

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants

Personal protective equipment

Eye/face protection : Wear face-shield and protective suit for abnormal processing problems.

PSDS (Product Safety	Data Sheet)	according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878	• Rev 06
Hand protection			
Material	: neoprene, nitrile,	polyvinyl alcohol (PVA), Viton®.	
Remarks		nt, impervious gloves complying with a t all times when handling chemical pro ecessary.	
Skin and body protection		tection in relation to its type, to the co ances, and to the specific work-place.	ncentration and amount of
Respiratory protection	: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.		
Filter type		ion must be based on known or anticip oduct and the safe work-ing limits of th ter	
Protective measures	: Wash contamina	ted clothing before re-use.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	: Buttery, smooth, semi-solid
Colour	: grey
Odour	: Mild grease like.
Odour Threshold	: No data available
Pour point	: -54 °C
	Base Fluid Blend
Boiling point/boiling range	: No data available
Flash point	: 187 °C
	Method: Cleveland open cup
	Base Fluid Blend
Fire Point	: 203 °C
	Base Fluid Blend
рН	: No data available
Auto-Ignition Temperature	: No data available
Evaporation rate	: No data available
Upper explosion limit /	: No data available
Upper flammability limit	
Lower explosion limit /	: No data available
Lower flammability limit	
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 0.8992 kg/l (15 °C)
Solubility(ies)	
Water solubility	: insoluble
Partition coefficient: n- octanol/water	: No data available
Decomposition	No data available
temperature :	
Viscosity	
Viscosity, kinematic	: 129.8 cSt (40 °C) Base Fluid Blend
	15.6 cSt (100 °C) Base Fluid Blend
Flammability	: Low fire hazard. This material must be heated before ignition will occur.
Explosive properties	: Do not pressurize, cut, weld, braze, solder, drill, grind or ex-pose containers to
	heat or sources of ignition.
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Other information

Explosive properties : No data available

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10. STABILITY AND REACTIVITY

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Reactivity

No dangerous reaction known under conditions of normal use

Chemical stability Stable under normal conditions.	
Possibility of hazardous react Hazardous reactions	ions : Hazardous polymerisation does not occur.
Conditions to avoid Conditions to avoid	: No data available
Incompatible materials Materials to avoid	: Reactive with oxidising agents, acids, alkalis and reducing agents.
Hazardous decomposition pro Hazardous decomposition products	 May release COx, NOx, SOx, POx, H2S, KOx, SbOx, MoOx, alkyl mercaptans, sulfides, diphenylamine, alkenes, smoke and irritating vapours when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

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

Information on likely	:Eye contact
routes of exposure	Ingestion
	Inhalation
	Skin contact

Acute toxicity

Not classified due to lack of data.

Product:

Acute oral toxicity	: Remarks: No data available
Acute inhalation toxicity	: Remarks: No data available
Acute dermal toxicity	: Remarks: No data available

Components:

Amines, C12-14-alkyl, C6-10-alkyl phosphates:		
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg	
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg	

Phenol, isobutylenated, phosphate (3:1):

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 200 mg/l
	Exposure time: 1 h
	Test atmosphere: vapour
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Not classified due to lack of data.

Serious eye damage/eye irritation

Not classified due to lack of data.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Respiratory or skin sensitisation Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Suspected of damaging fertility.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data

Information on other hazards

Endocrine disrupting properties

Product: Assessment

: The substance/mixture does not contain components consid-ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12. ECOLOGICAL INFORMATION

: Remarks: No data available
: Remarks: No data available
: Remarks: No data available
: Remarks: No data available
hosphate (3:1):
: LC50 (Fish): 0.8 mg/l Exposure time: 96 h
: EC50 (Daphnia (water flea)): 0.202 mg/l Exposure time: 48 h
:NOEC: 0.093 mg/l
Exposure time: 90 d Species: Lepomis macrochirus (Bluegill sunfish)
: NOEC: 0.0399 mg/l Exposure time: 21 d Species: Daphnia (water flea)

(Chronic toxicity)

Persistence and degradability

Product: Biodegradability

: Remarks: No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

Product: Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

according to Regulation (EC) No. 1907/2006,

as amended by Commission Regulation (EU) 2020/878

Endocrine disrupting properties

Product:

Assessment

:The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product

: The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.

14. TRANSPORT INFORMATION

UN number or ID number IMDG IATA	: Not regulated as a dangerous good : Not regulated as a dangerous good
UN proper shipping name IMDG IATA	: Not regulated as a dangerous good : Not regulated as a dangerous good
Transport hazard class(es) IMDG IATA	: Not regulated as a dangerous good : Not regulated as a dangerous good
Packing group IMDG IATA (Cargo) IATA (Passenger)	: Not regulated as a dangerous good : Not regulated as a dangerous good : Not regulated as a dangerous good

Environmental hazards

Not regulated as a dangerous good



according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Special precautions for user Not applicable

Maritime transport in bulk according to IMO instruments

Remarks

: ADR: Not Regulated ADN: Not Regulated RID: Not Regulated

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for
Authorisation (Article 59).: Not applicableRegulation (EC) on substances that deplete layer
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)
REACH - List of substances subject to authorisation (Annex XIV): Not applicable
: Not applicable
: Not applicable
: Not applicable
: Not applicableWater hazard class (Germany):WGK 2 obviously hazardous to water

The components of this product are reported in the following inventories:

DSL	: On the inventory, or in compliance with the inventory
TSCA	: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
IECSC	 On the inventory, or in compliance with the inventory European Poison Center Phone Numbers Denmark - 82 12 12 12 Poland - +48 71 343 30 08 Netherlands - +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in case of acute intoxications.)

Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture.

16. OTHER INFORMATION

Full text of H-Statements

H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H361f	: Suspected of damaging fertility.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Dam.	: Serious eye damage/eye irritation
Repr.	: Reproductive toxicity
Skin irr.	: Skin corrosion/irritation
Skin Sens.	: Skin sensitisation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;

- ADR Agreement concerning the International Carriage of Dangerous Goods by Road;
- AIIC Australian Inventory of Industrial Chemicals;

⑦ Pulsarlube GmbH







ASTM - American Society for the Test-ing of Materials; bw - Body weight;

CLP - Classification Labelling Packaging Regulation; Regula-tion (EC) No 1272/2008;

CMR - Carcinogen, Mutagen or Reproductive Toxicant;

DIN - Standard of the German Institute for Standardisation;

DSL - Domestic Substances List (Canada);

ECHA - European Chemicals Agency;

EC-Number - European Community number;

ECx - Concentration associated with x% response;

ELx - Loading rate associated with x% response;

EmS - Emergen-cy Schedule;

ENCS - Existing and New Chemical Substances (Japan);

ErCx - Concentration as-sociated with x% growth rate response;

GHS - Globally Harmonized System;

GLP - Good La-boratory Practice;

IARC - International Agency for Research on Cancer;

IATA - International Air Transport Association;

IBC - International Code for the Construction and Equipment of Ships car-rying Dangerous Chemicals in Bulk;

IC50 - Half maximal inhibitory concentration;

ICAO - Interna-tional Civil Aviation Organization;

IECSC - Inventory of Existing Chemical Substances in China;

IMDG - International Maritime Dangerous Goods;

IMO - International Maritime Organization;

ISHL - Industrial Safety and Health Law (Japan);

ISO - International Organisation for Standardization;

KECI - Korea Existing Chemicals Inventory;

LC50 - Lethal Concentration to 50 % of a test popula-tion;

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose);

MARPOL - Interna-tional Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified;

NO(A)EC - No Observed (Adverse) Effect Concentration;

NO(A)EL - No Observed (Adverse) Ef-fect Level;

NOELR - No Observable Effect Loading Rate;

NZIoC - New Zealand Inventory of Chemicals;

OECD - Organization for Economic Co-operation and Development;

OPPTS - Office of Chemical Safety and Pollution Prevention;

PBT - Persistent, Bioaccumulative and Toxic sub-stance;

PICCS - Philippines Inventory of Chemicals and Chemical Substances;

(Q)SAR - (Quanti-tative) Structure Activity Relationship;

REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Re-striction of Chemicals;

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail;

H361f

H412

SADT - Self-Accelerating Decomposition Temperature;

SDS - Safety Data Sheet; SVHC - Substance of Very High Concern;

TCSI - Taiwan Chemical Substance Inventory;

TECI - Thailand Existing Chemicals Inventory;

TRGS - Technical Rule for Hazardous Substances;

TSCA - Toxic Substances Control Act (United States);

UN - United Nations;

vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture:	
Repr. 2	
Aquatic Chronic 3	

Classification procedure: Calculation method Calculation method

The first creation date : 11.02.2015

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

The final revision date : 28.04.2025

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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.