

Pulsarlube PL7 (Low Temperature Grease)

1. MANUFACTURER INFORMATION

1) Product Name : Pulsarlube PL7 (Low Temperature Grease)

Unique Formula Identifier (UFI): R800-90Q5-X00R-PEGJ

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:

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Germany sales.eu@pulsarlube.com

Emergency telephone number +49 69 8700766 - 62 / - 63

2. HAZARDS IDENTIFICATION

1) Classification of the substance or mixture Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 2 H361f: Suspected of damaging fertility.

Long-term (chronic) aquatic hazard, H412: Harmful to aquatic life with long lasting effects.

Category 3

2) Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



- Signal word : Warning
- o Hazard statements: H361f Suspected of damaging fertility.

H412 Harmful to aquatic life with long lasting effects.

- o Precautionary statements
- <Prevention>

P201 Obtain special instructions before use.



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.

<Response>

<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

2) 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), hydrotreated 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, phosphate (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 Oligomerisation, Hydrolyzed,	943-535-3	Eye Dam. 2; H319 Skin Sens. 1B; H317	0.1 - 1



Esterification Products with		
propylene oxide		

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

1) 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.

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

Risks : First aider needs to protect himself.

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

Treatment : Treat symptomatically.

5. FIREFIGHTING MEASURES

1) Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing media : No information available.

2) Special hazards arising from the substance or mixture

Specific hazards during firefighting

Hazardous combustion products

: Cool closed containers exposed to fire with water spray.

: Carbon oxides (CO, CO2), nitrogen oxides (NOx), sulphur oxides (SOx), sulphur compounds (H2S), alkyl mercaptans, sulfides, smoke and irritating vapours as products of

incomplete combustion.

3) Advice for firefighters

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

PSDS (Product Safety Data Sheet)

PÇL/ARLUBE Rev 05

6. ACCIDENTAL RELEASE MEASURES

1) Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

Material can create slippery conditions.

Mark the contaminated area with signs and prevent access to

unauthorized personnel.

Only qualified personnel equipped with suitable protective

equipment may intervene.

2) Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

3) 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.

4) Reference to other sections

For personal protection see section 8.

7. HANDLING AND STORAGE

1) 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 : None known.

fire and explosion Hygiene measures

: Remove and wash contaminated clothing and gloves,

including the inside, before re-use. Wash face, hands and any

exposed skin thoroughly after handling.

2) Conditions for safe storage, including any incompatibilities

Requirements for storage : 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.

3) Specific end use(s)

Specific use(s) : No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

1) Control parameters

8-hour TLV-TWA of 5 mg/m³ recommended by manufacturer based on ACGIH TLV for mineral oil mists.



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Consult local authorities for acceptable exposure limits.

2) 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.

Hand protection

Material : neoprene, nitrile, polyvinyl alcohol (PVA), Viton®.

Remarks : Chemical-resistant, impervious gloves complying with an approved standard

should be worn at all times when handling chemical products if a risk assessment

indicates this is necessary.

: Choose body protection in relation to its type, to the concentration and amount of Skin and body protection

dangerous substances, and to the specific work-place.

: Use respiratory protection unless adequate local exhaust ventilation is provided or Respiratory protection

exposure assessment demonstrates that exposures are within recommended

exposure guidelines.

Respirator selection must be based on known or anticipated exposure levels, the

hazards of the product and the safe working limits of the selected respirator.

: organic vapour filter Filter type

Protective measures : Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

1) Information on basic physical and chemical properties

Physical state : Buttery, smooth, semi-solid

Colour : gold

Odour : Mild grease like. Odour Threshold : No data available

: -54 °C Pour point 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

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 : 0.8903 kg/l (15 °C)

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-: No data available

octanol/water Viscosity

Viscosity, kinematic : 129.8 cSt (40 °C) Base Fluid Blend 15.6 cSt (100 °C) Base Fluid Blend

: Low fire hazard. This material must be heated before ignition will occur. Flammability

Explosive properties : Do not pressurize, cut, weld, braze, solder, drill, grind or expose

containers to heat or sources of ignition.

2) Other information

No data available

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10. STABILITY AND REACTIVITY

1) Reactivity

No dangerous reaction known under conditions of normal use.

2) Chemical stability

Stable under normal conditions.

3) Possibility of hazardous reactions

Hazardous reactions : Hazardous polymerisation does not occur.

Stable under normal conditions.

4) Conditions to avoid

Conditions to avoid : No data available

5) Incompatible materials

Materials to avoid : Reactive with oxidising agents, acids, alkalis and reducing agents.

6) Hazardous decomposition products

Hazardous decomposition products : May release COx, NOx, SOx, POx, H2S, KOx, SbOx, sulfides,

alkyl mercaptans, diphenylamine, alkenes, smoke and irritating vapours when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of : Eye contact exposure : Ingestion

Inhalation Skin contact

Acute toxicProduct :

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 : LD50 (Rat): > 2,000 mg/kg,

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Skin corrosion/irritation

Product:

Remarks : No data available

Serious eye damage/eye irritation

Product:

Remarks : No data available



PSDS (Product Safety Data Sne	according to Regulation (EC) No. 1907/2006
Respiratory or skin sensitizationNo data available	
Germ cell mutagenicityNo data available	
Carcinogenicity Product:	
Remarks	: All components listed in Annex VI to which Note L applies, and contained in the product, have been shown to contain less than 3% DMSO extractables as measured by IP346.
Reproductive toxicityNo data available	·
STOT-single exposureNo data available	
STOT-repeated exposureNo data available	

2) Information on other hazards

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.

12. ECOLOGICAL INFORMATION

1) Toxicity Product:

Toxicity to fish : Remarks: No data available : Remarks: No data available Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae/aquatic plants : Remarks: No data available Toxicity to microorganisms : Remarks: No data available

Components:

Phenol, isobutylenated, phosphate (3:1):

Toxicity to fish : LC50 (Fish): 0.8 mg/l Exposure time: 96 h

: EC50 (Daphnia (water flea)): 0.202 mg/l Toxicity to daphnia and other

Exposure time: 48 h aquatic invertebrates : NOEC: 0.093 mg/l Toxicity to fish (Chronic toxicity) Exposure time: 90 d

Species: Lepomis macrochirus (Bluegill sunfish)

: NOEC: 0.0399 mg/l Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Exposure time: 21 d

Species: Daphnia (water flea)

2) Persistence and degradability

Product:

: Remarks: No data available Biodegradability

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3) Bioaccumulative potential

No data available

4) Mobility in soil

No data available

5) 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.

6) 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.

7) Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

1) 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

1) UN number or ID number

IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

2) UN proper shipping name

IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

3) Transport hazard class(es)

IMDG : Not regulated as a dangerous good IATA : Not regulated as a dangerous good

4) Packing group

IMDG : Not regulated as a dangerous good IATA (Cargo) : Not regulated as a dangerous good IATA (Passenger) : Not regulated as a dangerous good

5) Environmental hazards

Not regulated as a dangerous good

PSDS (Product Safety Data Sheet)

according to Regulation (EC) No. 1907/2006



6) Special precautions for user

Not applicable

7) Maritime transport in bulk according to IMO instruments

Remarks : ADR: Not Regulated

ADN: Not Regulated RID: Not Regulated

15. REGULATORY INFORMATION

1) 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).

Regulation (EC) No 1005/2009 on

substances that deplete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollutants (recast)

REACH - List of substances subject to

authorization (Annex XIV)

: Not applicable

: Not applicable

: Not applicable

: Not applicable

Water 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

2) Chemical safety assessment

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

16. OTHER INFORMATION

Full text of H-Statements

: May be fatal if swallowed and enters airways. H304

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.

: Very toxic to aquatic life with long lasting effects. H410 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 : Long-term (chronic) aquatic hazard Aquatic Chronic

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

Rev 05

LJARLUBE

ADR Agreement concerning the International Carriage of Dangerous Goods by Road

AIIC Australian Inventory of Industrial Chemicals **ASTM** American Society for the Testing of Materials

bw Body weight

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

Carcinogen, Mutagen or Reproductive Toxicant **CMR** DIN Standard of the German Institute for Standardisation

DSL Domestic Substances List (Canada) **ECHA European Chemicals Agency EC-Number** European Community number

Concentration associated with x% response **EC**x ELx Loading rate associated with x% response

EmS Emergency Schedule

ENCS Existing and New Chemical Substances (Japan) Concentration associated with x% growth rate response ErCx

Globally Harmonized System **GHS GLP Good Laboratory Practice**

International Agency for Research on Cancer IARC IATA International Air Transport Association

International Code for the Construction and Equipment of Ships carrying Dangerous **IBC**

Chemicals in Bulk

IC50 Half maximal inhibitory concentration **ICAO** International Civil Aviation Organization

IECSC Inventory of Existing Chemical Substances in China

International Maritime Dangerous Goods **IMDG** International Maritime Organization IMO **ISHL** Industrial Safety and Health Law (Japan) ISO International Organisation for Standardization

Korea Existing Chemicals Inventory **KECI**

LC50 Lethal Concentration to 50 % of a test population

Lethal Dose to 50% of a test population (Median Lethal Dose) LD50 International Convention for the Prevention of Pollution from Ships MARPOL

n.o.s. Not Otherwise Specified

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

NO(A)EL No Observed (Adverse) Effect Level **NOELR** No Observable Effect Loading Rate **NZIoC** New Zealand Inventory of Chemicals

OECD Organization for Economic Co-operation and Development

Office of Chemical Safety and Pollution Prevention **OPPTS** Persistent, Bioaccumulative and Toxic substance **PBT**

PICCS Philippines Inventory of Chemicals and Chemical Substances

(Quantitative) Structure Activity Relationship (Q)SAR

Regulation (EC) No 1907/2006 of the European Parliament and of the Council **REACH**

> concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations concerning the International Carriage of Dangerous Goods by Rail

Self-Accelerating Decomposition Temperature SADT

SDS Safety Data Sheet

SVHC Substance of Very High Concern **TCSI** Taiwan Chemical Substance Inventory Thailand Existing Chemicals Inventory TECI Technical Rule for Hazardous Substances TRGS Toxic Substances Control Act (United States) **TSCA**

UN **United Nations**

vPvB Very Persistent and Very Bioaccumulative

Classification of the mixture:

Repr. 2

RID

Classification procedure: H361f Calculation method Aquatic Chronic 3 H412 Calculation method

2) The first creation date: 11.02.2015

3) The number of times, and the final revision date: Revision times 05

The final revision date: 14.07.2023



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.