

Pulsarlube OL4 (Food Grade Oil)

1. MANUFACTURER INFORMATION

1) Product Name: PULSARLUBE OL4 (Food Grade Oil)

2) Recommended use of the chemical and restrictions on use

A. Product description: Food grade extreme pressure, NSF H1 Registered.

All components comply with FDA 21 CFR 178.3570 "Lubricants with Incidental Food Contact". It is intended for application on industrial and food equipment. It should not be added directly to the food product.

B. Restrictions on use: It should not be added directly to the food product.

3) Supplier's details

Pulsarlube GmbH Telephone Number for Information:

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

2. HAZARDS IDENTIFICATION

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

Not a hazardous substance or mixture.

2) Label elements

Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Additional Labelling

EUH210 Safety data sheet available on request.

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.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

2) Mixtures Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
alkylated diphenylamine	-	Repr. 2; H361 Aquatic Chronic 3; H412	0.25 - 1

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 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. FIRE FIGHTING 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 : Cool closed containers exposed to fire with water spray.

Hazardous combustion products : Carbon oxides (CO, CO2), silicon oxides (SiOx), 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.

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.

Use only with adequate ventilation.

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 Hygiene measures : None known.

: 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 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.

3) Specific end use(s)

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

1) Control parameters

Occupational Exposure Limits

Contains no substances with occupational exposure limit values.

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.

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

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.

Filter type : organic vapour filter

Protective measures : Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

1) Information on basic physical and chemical properties

Physical state : viscous liquid

Colour : Colourless to light yellow. : Mild petroleum oil like. Odour : No data available Odour Threshold

: -36 °C Pour point

Boiling point/boiling range : No data available

Flash point : 204 °C

Method: Cleveland open cup

: No data available pΗ Fire Point : No data available **Auto-Ignition Temperature** : No data available : No data available Evaporation rate 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 : 0.8737 kg/l (15 °C) Density

Solubility(ies)

Water solubility : insoluble

Partition coefficient: n-: No data available

octanol/water

: No data available Decomposition temperature

Viscosity

: 225.1 cSt (40 °C) / 19.7 cSt (100 °C) Viscosity, kinematic

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

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

containers to heat or sources of ignition.

Particle size : No data available.

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.

4) Conditions to avoid

Conditions to avoid : No data available

5) Incompatible materials

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

6) Hazardous decomposition products

Hazardous decomposition products : May release COx, NOx, SOx, aldehydes, methacrylate

monomers, 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 toxic

Not classified due to lack of data.

Product:

Acute oral toxicity : Remarks: No data available

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation

toxicity

Remarks: No data available

Acute dermal toxicity : Remarks: No data available

Skin corrosion/irritation

Not classified due to lack of data.

Product:

Remarks : No data available

O Serious eye damage/eye irritation Not classified due to lack of data.

Product:

Remarks : No data available

Respiratory or Skin sensitisation

Skin sensitisation

- Not classified due to lack of data.

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- 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
- Not classified due to lack of data.
- 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.

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 Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae/aquatic plants Toxicity to microorganisms

: Remarks: No data available

: Remarks: No data available

: Remarks: No data available : Remarks: No data available

2) Persistence and degradability

Product:

Biodegradability : Remarks: No data available

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.

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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 goodIATA (Cargo): Not regulated as a dangerous goodIATA (Passenger): Not regulated as a dangerous good

5) Environmental hazards

Not regulated as a dangerous good

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) 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 1 slightly 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

H361 : Suspected of damaging fertility or the unborn child. H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic : Long-term (chronic) aquatic hazard

: Reproductive toxicity Repr.

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 American Society for the Testing of Materials **ASTM**

Body weight bw

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

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

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 Emergency Schedule

ENCS Existing and New Chemical Substances (Japan)

ErCx Concentration associated with x% growth rate response

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

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

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

Chemicals in Bulk

PSDS (Product Safety Data Sheet)

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

PVL/AR LUBE
Rev 02

IC50 Half maximal inhibitory concentration
ICAO International Civil Aviation Organization

IECSC Inventory of Existing Chemical Substances in China

IMDGInternational Maritime Dangerous GoodsIMOInternational Maritime OrganizationISHLIndustrial Safety and Health Law (Japan)ISOInternational Organisation for Standardization

KECI Korea Existing Chemicals Inventory

LC50 Lethal Concentration to 50 % of a test population

LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL International 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) Effect 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 substance

PICCS Philippines Inventory of Chemicals and Chemical Substances

(Q)SAR (Quantitative) Structure Activity Relationship

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

concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

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

2) The first creation date: 06.04.2020

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

The final revision date: Apr.28.2025

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.