

# Pulsarlube OL5 (High Temperature OIL)

## 1. MANUFACTURER INFORMATION

1) Product Name : PULSARLUBE OL5 (High Temperature OIL)

2) Recommended use of the chemical and restrictions on use

A. Product description : Industrial For professional use only

B. Restrictions on use : No uses known.

3) Supplier's details

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## 2. HAZARDS IDENTIFICATION

### 1) Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, Category 3

H412

Full text of H- and EUH-statements: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

### 2) Label elements

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

Signal word (CLP)	: -
Hazard statements (CLP)	: H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P273 - Avoid release to the environment.
EUH-statements	: P501 - Dispose of container to an approved waste disposal plant. : EUH208 - Contains N-1-NAPHTYLANILINE_1.4, Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl-and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine_. May produce an allergic reaction.

### 3) Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component	
Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine	The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 1) Substances

Not applicable

#### 2) Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Benzenamine, N-phenyl-, styrenated	CAS-No.: 68442-68-2 EC-No.: 270-485-3 REACH-no: 01-2120115789-46	> 0 – < 5	Aquatic Chronic 4, H413
N-1-NAPHTYLANILINE	CAS-No.: 90-30-2 EC-No.: 201-983-0 REACH-no: 01-2119488704-27	> 0 – < 5	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	CAS-No.: 192268-65-8 EC-No.: 421-820-9 EC Index-No.: 607-501-00-9 REACH-no: 01-2119480426-35	≥ 0 – < 1	Repr. 2, H361d
Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine	EC-No.: 939-700-4 REACH-no: 01-2119982395-25	≥ 0,1 – < 0,25	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of H- and EUH-statements: see section 16

### 4. FIRST AID MEASURES

#### 1) Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Do NOT induce vomiting. Obtain emergency medical attention.

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

No additional information available

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

No additional information available

**5. FIRE FIGHTING MEASURES**
**1) Extinguishing media**

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

**2) Special hazards arising from the substance or mixture**

No additional information available

**3) Advice for firefighters**

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

**6. ACCIDENTAL RELEASE MEASURES**
**1) Personal precautions, protective equipment and emergency procedures**
**Engineering measures**

Emergency procedures	: Evacuate unnecessary personnel.
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**For emergency responders**

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

**2) Environmental precautions**

 Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.  
 Avoid release to the environment.

**3) Methods and material for containment and cleaning up**

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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**4) Reference to other sections**

See Section 8. Exposure controls and personal protection.

**7. HANDLING AND STORAGE**
**1) Precautions for safe handling**

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
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**2) Conditions for safe storage, including any incompatibilities**

Storage conditions : Store in original container. Store in a dry place. Store in a closed container.  
 Incompatible products : Strong oxidisers.

**3) Specific end use(s)**

No additional information available

**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**

No additional information available

**Personal protective equipment**

**Personal protective equipment** : Avoid all unnecessary exposure.

**Personal protective equipment symbol(s) :**



**Eye and face protection**

Eye protection : Chemical goggles or safety glasses

**Skin protection**

Skin and body protection : Wear suitable protective clothing

Hand protection : Wear protective gloves.

Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)			

**Other skin protection**

Materials for protective clothing: : Protective clothing

**Respiratory protection**

Respiratory protection : No personal breathing protective equipment is normally required

**Thermal hazards**

No additional information available

**Environmental exposure controls**

Other information : Do not eat, drink or smoke during use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 1) Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 280 °C (Open cup)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not applicable
Viscosity, kinematic	: 250 mm <sup>2</sup> /s @ 40°C
Solubility	: Insoluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: 0,96 @ 20°C
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 2) Other information

**Information with regard to physical hazard classes**

No additional information available

**Other safety characteristics**

No additional information available

## 10. STABILITY AND REACTIVITY

### 1) Reactivity

Stable at ambient temperature and under normal conditions of use.

### 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

No additional information available

### 5) Incompatible materials

Strong oxidisers.

### 6) Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

**11. TOXICOLOGICAL INFORMATION**
**1) Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity (oral) : Not classified  
 Acute toxicity (dermal) : Not classified  
 Acute toxicity (inhalation) : Not classified

<b>Benzenamine, N-phenyl-, styrenated (68442-68-2)</b>	
<b>LD50 oral rat</b>	> 20000 mg/kg
<b>LD50 dermal rabbit</b>	> 5000 mg/kg

<b>N-1-NAPHTYLANILINE (90-30-2)</b>	
<b>LD50 oral rat</b>	1625 mg/kg
<b>LD50 dermal rabbit</b>	> 5000 mg/kg

<b>Reaction mass of 1H-Benzotriazole-1-methanamine, N,N-bis(2-ethylhexyl)-6-methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl-1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N-bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine</b>	
<b>LD50 oral rat</b>	3313 mg/kg
<b>LD50 dermal rat</b>	> 2000 mg/kg

<b>reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives (192268-65-8)</b>	
<b>LD50 oral rat</b>	> 2000 mg/kg
<b>LD50 dermal rat</b>	> 2000 mg/kg

Skin corrosion/irritation : Not classified  
 pH: Not applicable  
 Additional information : Based on available data, the classification criteria are not met  
 Serious eye damage/irritation : Not classified  
 pH: Not applicable  
 Additional information : Based on available data, the classification criteria are not met  
 Respiratory or skin sensitisation : Not classified  
 Additional information : Based on available data, the classification criteria are not met  
 Germ cell mutagenicity : Not classified  
 Additional information : Based on available data, the classification criteria are not met  
 Carcinogenicity : Not classified  
 Additional information : Based on available data, the classification criteria are not met  
 Reproductive toxicity : Not classified  
 Additional information : Based on available data, the classification criteria are not met  
 STOT-single exposure : Not classified  
 Additional information : Based on available data, the classification criteria are not met  
 STOT-repeated exposure : Not classified  
 Additional information : Based on available data, the classification criteria are not met

<b>N-1-NAPHTYLANILINE (90-30-2)</b>	
<b>STOT-repeated exposure</b>	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified  
 Additional information : Based on available data, the classification criteria are not met

<b>OL5</b>	
<b>Viscosity, kinematic</b>	250 mm <sup>2</sup> /s @ 40°C

**2) Information on other hazards**

**Endocrine disrupting properties**  
 No additional information available

**Other information**

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

**12. ECOLOGICAL INFORMATION**
**1) Toxicity**

Ecology - water : Harmful to aquatic life with long lasting effects.  
 Hazardous to the aquatic environment, short-term (acute) : Not classified  
 Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

Benzenamine, N-phenyl-, styrenated (68442-68-2)	
LC50 - Fish [1]	920 mg/l (Danio rerio (zebra fish))
EC50 - Crustacea [1]	50 mg/l (Daphnia magna (water flea))

N-1-NAPHTHYLANILINE (90-30-2)	
LC50 - Fish [1]	0,44 mg/l (Oncorhynchus mykiss)
EC50 - Crustacea [1]	0,32 mg/l (Daphnia)
EC50 72h - Algae [1]	0,25 mg/l (Desmodesmus subspicatus)

reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives (192268-65-8)	
LC50 - Fish [1]	> 100 mg/l (Danio rerio)
EC50 - Crustacea [1]	> 100 mg/l (Daphnia magna)
EC50 72h - Algae [1]	> 100 mg/l (Scenedesmus subspicatu)
NOEC (chronic)	> 5,5 mg/l

**2) Persistence and degradability**

OL5	
Persistence and degradability	May cause long-term adverse effects in the environment.

Benzenamine, N-phenyl-, styrenated (68442-68-2)	
Biodegradation	9 % OCDE 301 C

N-1-NAPHTHYLANILINE (90-30-2)	
Biodegradation	0 % (OCDE 301 C)

**3) Bioaccumulative potential**

OL5	
Bioaccumulative potential	Not established.

Benzenamine, N-phenyl-, styrenated (68442-68-2)	
Bioconcentration factor (BCF REACH)	> 500
Partition coefficient n-octanol/water (Log Pow)	4,64 @ 22°C

N-1-NAPHTHYLANILINE (90-30-2)	
Partition coefficient n-octanol/water (Log Pow)	2,96 @ 25°C



<b>reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives (192268-65-8)</b>
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<b>Partition coefficient n-octanol/water (Log Pow)</b>	4,8 – 8,8 @ 22°C and pH 6.7
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**4) Mobility in soil**

No additional information available

**5) Results of PBT and vPvB assessment**

No additional information available

**6) Endocrine disrupting properties**

No additional information available

**7) Other adverse effects**

Additional information : Avoid release to the environment.

**13. DISPOSAL CONSIDERATIONS**
**1) Waste treatment methods**

Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
Ecology - waste materials	: Avoid release to the environment.
European List of Waste (LoW) code	: 13 02 06* - synthetic engine, gear and lubricating oils

**14. TRANSPORT INFORMATION**

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

**1) UN number or ID number**

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

**2) UN proper shipping name**

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

**3) Transport hazard class(es)**

<b>ADR</b>	
Transport hazard class(es) (ADR)	: Not applicable
<b>IMDG</b>	
Transport hazard class(es) (IMDG)	: Not applicable
<b>IATA</b>	
Transport hazard class(es) (IATA)	: Not applicable
<b>ADN</b>	
Transport hazard class(es) (ADN)	: Not applicable
<b>RID</b>	
Transport hazard class(es) (RID)	: Not applicable

**4) Packing group**

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable



Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

**5) Environmental hazards**

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

**6) Special precautions for user**
**Overland transport**

No data available

**Transport by sea**

No data available

**Air transport**

No data available

**Inland waterway transport**

No data available

**Rail transport**

No data available

**7) Maritime transport in bulk according to IMO instruments**

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 (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**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**
**Germany**

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
 Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

**Netherlands**

SZW-lijst van kankerverwekkende stoffen : Benzenamine, N-phenyl-, styrenated is listed  
 SZW-lijst van mutagene stoffen : Benzenamine, N-phenyl-, styrenated is listed  
 SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
 SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
 SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

**Denmark**

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

**Switzerland**

Storage class (LK) : LK 10/12 - Liquids

**2) Chemical safety assessment**

No chemical safety assessment has been carried out

**16. OTHER INFORMATION**

Indication of changes			
Section	Changed item	Change	Comments
	Type of product	Modified	
	Issue date	Modified	
	Revision date	Modified	
	Supersedes	Modified	
1.1	Product code	Added	
1.2	Industrial/Professional use spec	Modified	
3	Composition/information on ingredients	Modified	
8.2	Respiratory protection	Modified	
9.1	Flash point	Modified	
9.1	pH	Added	
9.1	Viscosity, kinematic	Added	
15.1	Water hazard class (WGK)	Added	

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

**Full text of H- and EUH-statements:**

Acute Tox. 4 (Oral) Acute toxicity (oral), Category 4  
 Aquatic Acute 1 Hazardous to the aquatic environment – Acute Hazard, Category 1  
 Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic Hazard, Category 1  
 Aquatic Chronic 2 Hazardous to the aquatic environment – Chronic Hazard, Category 2  
 Aquatic Chronic 4 Hazardous to the aquatic environment – Chronic Hazard, Category 4  
 EUH208 Contains N-1-NAPHTHYLANILINE\_1.4, Reaction mass of 1H-Benzotriazole-1-

	methanamine, N,N-bis(2-ethylhexyl)-6- methyl- and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-5-methyl- and N,N-bis(2-ethylhexyl)-4-methyl- 1H-benzotriazole-1-methylamine and 2H-Benzotriazole-2-methanamine, N,N-bis(2-ethylhexyl)-4-methyl- and N,N- bis(2-ethylhexyl)-5-methyl-1H-benzotriazole-1-methylamine_. May produce an allergic reaction.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

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.*