Pulsarlube OL1 (Multi Purpose OIL)

1. MANUFACTURER INFORMATION

1) Product Name : PULSARLUBE OL1 (Multi Purpose OIL)

2) Recommended use of the chemical and restrictions on use

A. Product description : Special adhesive oil

B. Restrictions on use : No uses known.

3) Supplier's details

Pulsarlube GmbH
Silostrasse 31b,
65929 Frankfurt am Main,
Germany

Telephone Number for Information:
Tel.: +49 69 8700766 - 62 / - 63
Fax : +49 69 8700766 - 69
sales.eu@pulsarlube.com

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

2. HAZARDS IDENTIFICATION

1) Classification of the substance or mixture
GB CLP Regulation
This mixture is not classified as hazardous in accordance with GB CLP Regulation.

2) Label elements
GB CLP Regulation
Special labelling of certain mixtures
EUH210 Safety data sheet available on request.

Additional advice on labelling
According to EC directives or the corresponding national regulations the product does not have to be labelled.

3) Other hazards
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.
Spilled product must not leak into the ground.
Do not allow uncontrolled leakage of product into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

2) Mixtures
Hazardous components

CAS No	Chemical name			Quantity
	EC No	IndexNo	REACH No	
	Classificatio (GB CLP Regulation)			

64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic			80 - < 100 %
	265-157-1		01-2119484627-25	
	Asp. Tox. 1; H304			
68937-96-2	Di-tert-butyl-Polysulfides			0.5 -<1%
	273-103-3		01-2119540515-43	
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412			
68955-53-3	Amines, C10-C14-tert-alkyl			80 - < 100 %
	701-175-2		01-2119456798-18	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H302 H314 H318 H317 H400 H410			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
64742-54-7	265-157-1	Distillates (petroleum), hydrotreated heavy paraffinic	80 - < 100 %
	dermal: LD50 = > 5000 mg/kg; oral: LD50 = > 5000 mg/kg		
68937-96-2	273-103-3	Di-tert-butyl-Polysulfides	0.5 - < 1 %
	Skin Sens. 1B; H317: >= 46 - 100		
68955-53-3	701-175-2	Amines, C10-C14-tert-alkyl	< 0.1 %
	inhalation: LC50 = >= 157 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = 251 mg/kg; oral: LD50 = > 500 mg/kg Aquatic Acute 1; H400: M=1 Aquatic Chronic 1; H410: M=1		

Further Information
This mixture does not contain any substances which either present a health or environmental hazard according to Regulation (EC) No. 1272/2008 or have an occupational exposure limit assigned.

DMSO-Extrakt < 3 %, IP 346.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

4. FIRST AID MEASURES

1) Description of first aid measures

General information : Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

After inhalation : Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

After contact with skin : After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. Protect skin by using skin protective cream. In case of skin irritation, seek medical treatment.

After contact with eyes : In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

After ingestion : Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Call a physician immediately.

2) Most important symptoms and effects, both acute and delayed
No information available.

3) Indication of any immediate medical attention and special treatment needed
First Aid, decontamination, treatment of symptoms.

5. FIRE FIGHTING MEASURES

1) Extinguishing media

Suitable extinguishing media	: Foam. Extinguishing powder. Carbon dioxide (CO2). Atomized water.
Unsuitable extinguishing media	: High power water jet.

2) Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulfur oxides. carbon black.

3) Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

6. ACCIDENTAL RELEASE MEASURES

1) Personal precautions, protective equipment and emergency procedures

General advice	: High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Avoid contact with skin, eye and clothing.

2) Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

3) Methods and material for containment and cleaning up

Other information	: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

4) Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Section 12: Ecological Information (non-mandatory)
Disposal: see section 13

7. HANDLING AND STORAGE

1) Precautions for safe handling

Advice on safe handling	: Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eyes and clothes.
Advice on protection against fire and explosion	: Keep away from sources of ignition - No smoking.
Advice on general occupational hygiene	: Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

2) Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and	: Keep the packing dry and well sealed to prevent contamination and

vessels	absorbtion of humidity. Keep container tightly closed in a cool place. Keep/Store only in original container.
Hints on joint storage	: Keep away from food, drink and animal feedingstuffs. Keep away from: Do not put any product-impregnated cleaning rags into your trouser pockets.
Further information on storage conditions	: Protect against: UV-radiation/sunlight. frost. heat. Recommended storage temperature: 5 - 40°C

3) Specific end use(s)

Further information: see technical data sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

1) Control parameters

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic			
Worker DNEL, long-term		inhalation	systemic	2,73 mg/m³
Worker DNEL, long-term		inhalation	local	5,58 mg/m³
Worker DNEL, long-term		dermal	systemic	0,97 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	1,19 mg/m³
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
68937-96-2	Di-tert-butyl-Polysulfides			
Worker DNEL, long-term		inhalation	systemic	3,29 mg/m³
Worker DNEL, long-term		dermal	systemic	4,67 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,58 mg/m³
Consumer DNEL, long-term		dermal	systemic	1,67 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,167 mg/kg bw/day
68955-53-3	Amines, C10-C14-tert-alkyl			
Worker DNEL, long-term		inhalation	systemic	12,5 mg/m³
Worker DNEL, long-term		inhalation	local	12,1 mg/m³
Consumer DNEL, long-term		inhalation	systemic	2,5 mg/m³
Consumer DNEL, long-term		inhalation	local	1,2 mg/m³
Consumer DNEL, long-term		oral	systemic	0,35 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment		Value
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic	
Secondary poisoning		9,33 mg/kg
68937-96-2	Di-tert-butyl-Polysulfides	
Freshwater		0,00024 mg/l
Freshwater (intermittent releases)		0,002 mg/l
Marine water		0,000024 mg/l
Freshwater sediment		0,94 mg/kg
Marine sediment		0,094 mg/kg
Secondary poisoning		6,66 mg/kg
Micro-organisms in sewage treatment plants (STP)		4,51 mg/l
Soil		0,0181 mg/kg
68955-53-3	Amines, C10-C14-tert-alkyl	
Freshwater		0,001 mg/l
Freshwater (intermittent releases)		0,004 mg/l

Marine water	0 mg/l
Freshwater sediment	2,14 mg/kg
Marine sediment	0,214 mg/kg
Secondary poisoning	4,71 mg/kg
Micro-organisms in sewage treatment plants (STP)	0,635 mg/l
Soil	0,428 mg/kg

Additional advice on limit values
Recommended limit value for oil mist
TWA: 5 mg/m³
STEL: 10 mg/m³

not contain any relevant quantities of substances with legally established exposure limitation.

2) Exposure controls

Appropriate engineering controls
Provide adequate ventilation as well as local exhaustion at critical locations.

Individual protection measures, such as personal protective equipment

Eye/face protection : Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): EN 166

Hand protection : Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN ISO 374

Duration of wearing with permanent contact: 480 min
Suitable material: NBR (Nitrile rubber).
Thickness of glove material: 0.7 mm
Wearing time with occasional contact (splashes): 30 min
Suitable material: NBR (Nitrile rubber).
Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream..

Skin protection : Wear suitable protective clothing. Change contaminated clothing.
Do not put any product-impregnated cleaning rags into your trouser pockets.

Respiratory protection : If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.
Breathing protection with filter against organic gases and vapours type A - boiling point > 65°C: A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

1) Information on basic physical and chemical properties

Physical state:	: liquid	
Colour:	: yellow - brown	
Odour:	: like: mineral oil.	
Odour threshold:	: not determined	
		Test method
Melting point/freezing point	: No data available	
Boiling point or initial boiling point and boiling range	: not determined	
Flammability	: No data available	
Lower explosion limits	: No data available	
Upper explosion limits	: No data available	
Flash point	: 270 °C	DIN EN ISO 2592

Auto-ignition temperature	: not determined	
Decomposition temperature	: No data available	
pH-Value	: not applicable	
Viscosity / kinematic (at 40 °C)	: 100 mm²/s	ASTM D 7042
Water solubility	: virtually insoluble	
Solubility in other solvents	: No data available	
Partition coefficient n-octanol/water	: No data available	
Vapour pressure	: No data available	
Density (at 15 °C)	: 0,877 g/cm³	DIN 51757
Relative vapour density	: No data available	
Particle characteristics:	: No data available	

2) Other information

Information with regard to physical hazard classes

Explosive properties	: No data available
Self-ignition temperature	
Solid	: No data available
Gas	: No data available
Oxidizing properties	: No data available

Other safety characteristics

Evaporation rate	: No data available	
Pour point	: -30 °C	ASTM D 7346

10. STABILITY AND REACTIVITY

1) Reactivity

The product is stable under storage at normal ambient temperatures.

2) Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

3) Possibility of hazardous reactions

No known hazardous reactions.

4) Conditions to avoid

Refer to chapter 7 No further action is necessary.
Do not overheat to avoid decomposition by heat.

5) Incompatible materials

Reacts with: Oxidising agent, strong.

6) Hazardous decomposition products

In case of fire may be liberated : Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Sulfur oxides. carbon black.
No known hazardous decomposition products.

11. TOXICOLOGICAL INFORMATION

1) Information on hazard classes as defined in GB CLP Regulation

○ Acute toxic

Based on available data, the classification criteria are not met.
Mixture not tested.

○ ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l.

CAS No	Substance				
	Exposure route	Dose	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic				
	oral	LD50 > 5000mg/kg	Rat	Study report (1982)	OECD Guideline 401
	dermal	LD50 > 5000mg/kg	Rabbit	Study report (1982)	OECD Guideline 402
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic				
	oral	LD50 > 500mg/kg	Rat	Study report (1993)	OECD Guideline 401
	dermal	LD50 251	Rat	Study report (1993)	OECD Guideline 402
	inhalation (4 h) vapour	LC50 >= 157mg/	Rat	Study report (2001)	OECD Guideline 403
	inhalation dust/mist	ATE 0,05 mg/l			

○ Irritation and corrosivity
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

○ Sensitising effects
Based on available data, the classification criteria are not met.

○ Carcinogenic/mutagenic/toxic effects for reproduction
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.

○ STOT-single exposure
Based on available data, the classification criteria are not met.

○ STOT-repeated exposure
Based on available data, the classification criteria are not met.
Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

○ Aspiration hazard
Based on available data, the classification criteria are not met.

2) Information on other hazards

Endocrine disrupting properties
not applicable

12. ECOLOGICAL INFORMATION

1) Toxicity
Based on available data, the classification criteria are not met.
Mixture not tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] | [d]	Species	Source	Method
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic					
	Acute fish toxicity	LL50 > 100mg/l	96 h	Pimephales promelas	Study report (1995)	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100mg/l	72 h			
	Fish toxicity	NOEC >= 1000mg/l	14 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
64742-54-7	Distillates (petroleum), hydrotreated heavy paraffinic					
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Raphidocelis subcapitata	Study report (2012)	OECD Guideline 201

	Acute crustacea toxicity	EL50 63 mg/l	48 h	Daphnia magna	Study report (2013)	OECD Guideline 202
68955-53-3	Amines, C10-C14-tert-alkyl					
	Acute fish toxicity	LC50 1,3 mg/l	96 h	Oncorhynchus mykiss	Study report (1994)	OECD Guideline 203
	Acute algae toxicity	ErC50 0,44 mg/l	72 h	Raphidocelis subcapitata	Study report (1994)	OECD Guideline 201
	Acute crustacea toxicity	EC50 4,1 mg/l	48 h	Daphnia magna	Study report (1984)	OECD Guideline 202
	Fish toxicity	NOEC 0,078 mg/l	96 d	Oncorhynchus mykiss	Study report (2002)	OECD Guideline 210
	Acute bacteria toxicity	EC50 63,5 mg/l ( )	0,5 h	activated sludge of a predominantly domestic sewag	Study report (2008)	OECD Guideline 209

2) Persistence and degradability
Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

3) Bioaccumulative potential
No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
68937-96-2	Di-tert-butyl-Polysulfides	5,6
68955-53-3	Amines, C10-C14-tert-alkyl	2,9

BCF

CAS No	Chemical name	BCF	Species	Source
68937-96-2	Di-tert-butyl-Polysulfides	0,006	Lepomis macrochirus	Study report (2015)

4) Mobility in soil
Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

5) Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

6) Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

7) Other adverse effects
No data available

Further information
Do not allow uncontrolled leakage of product into the environment.

13. DISPOSAL CONSIDERATIONS

1) Waste treatment methods

Disposal recommendations
Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

List of Wastes Code - residues/unused products

130205 : OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste engine, gear and lubricating oils; mineral-based non-chlorinated engine, gear and lubricating oils; hazardous waste

Contaminated packaging
Contaminated packages must be completely emptied and can be re-used following proper cleaning. Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

14. TRANSPORT INFORMATION

Land transport (ADR/RID)

1) UN number or ID number	-
2) UN proper shipping name	-
3) Transport hazard class(es)	-
4) Packing group	-

Inland waterways transport (ADN)

1) UN number or ID number	-
2) UN proper shipping name	-
3) Transport hazard class(es)	-
4) Packing group	-

Marine transport (IMDG)

1) UN number or ID number	-
2) UN proper shipping name	-
3) Transport hazard class(es)	-
4) Packing group	-

Air transport (ICAO-TI/IATA-DGR)

1) UN number or ID number	-
2) UN proper shipping name	-
3) Transport hazard class(es)	-
4) Packing group	-

5) Environmental hazards

ENVIRONMENTALLY HAZARDOUS : No

6) Special precautions for user
Unless specified otherwise, general measures for safe transport must be followed.

7) Maritime transport in bulk according to IMO instruments
not applicable

Other applicable information
No dangerous good in sense of these transport regulations.

15. REGULATORY INFORMATION

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

EU regulatory information
Restrictions on use (REACH, annex XVII):
Entry 75

National regulatory information

Water hazard class (D)	: 1 - slightly hazardous to water

2) Chemical safety assessment
Chemical safety assessments for substances in this mixture were not carried out.

16. OTHER INFORMATION

Changes
This data sheet contains changes from the previous version in section(s): 3,4,6,7,8,9

Abbreviations and acronyms

Acute Tox	Acute toxicity
Asp. Tox	Aspiration hazard
Skin Corr	Skin corrosion
Eye Dam	Eye damage
Skin Sens	Skin sensitisation
Aquatic Acute	Acute aquatic hazard
Aquatic Chronic	Chronic aquatic hazard
For abbreviations and acronyms, see:	ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road;
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways;
ASTM	American Society for the Testing of Materials; ATE - Acute Toxicity Estimates; bw - Body weight;
CAO	Cargo Aircraft Only;
CAS	Chemical Abstracts Service;
CMR	Carcinogen, Mutagen or Reproductive Toxicant;
DIN	Standard of the German Institute for Standardisation;
DNEL	Derived No-Effect Level;
DOT	Department of Transportation;
DSL	Domestic Substances List (Canada);
EG	European Union;
EN	European standards;
GHS	Globally Harmonized System;
GLP	Good Laboratory Practice;
HMIS	Hazardous Materials Identification System;
IARC	International Agency for Research on Cancer;
IATA	International Air Transport Association;
IC50	Half maximal inhibitory concentration;
ICAO	International Civil Aviation Organization;
IMDG	International Maritime Dangerous Goods;
IMO	International Maritime Organization;
ISO	International Organisation for Standardization;
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;
MSHA	Mine Safety and Health Administration;
n;o;s;	Not Otherwise Specified;
NFPA	National Fire Protection Association;
NO(A)EC	No Observed (Adverse) Effect Concentration;

NO(A)EL	No Observed (Adverse) Effect Level;
NOELR	No Observable Effect Loading Rate;
NTP	National Toxicology Program;
OECD	Organization for Economic Co-operation and Development;
PBT	Persistent, Bioaccumulative and Toxic substance;
(Q)SAR	(Quantitative) Structure Activity Relationship;
RCRA	Resource Conservation and Recovery Act;
REACH	Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals;
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail;
RQ	Reportable Quantity;
SADT	Self-Accelerating Decomposition Temperature;
SARA	Superfund Amendments and Reauthorization Act;
SDS	Safety Data Sheet;
TSCA	Toxic Substances Control Act (United States);
UN	United Nations;
vPvB	Very Persistent and Very Bioaccumulative

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways..
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled
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
EUH210	Safety data sheet available on request.

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 : 28.04.2025

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.