

SAFETY DATA SHEET



OXLUBE L9-TMP
11660

Version / Revision
Supersedes Version

3.01
3.00***

Revision Date
Issuing date

14-Sep-2021
14-Sep-2021

SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1. Product identifier

Identification of the
substance/preparation

OXLUBE L9-TMP

Chemical Name 2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate
CAS-No 126-57-8
EC No. 204-793-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance /
Preparation lubricant.
Uses advised against None

1.3. Details of the supplier of the safety data sheet

Company/Undertaking
Identification **OQ Chemicals GmbH**
Rheinpromenade 4A
D-40789 Monheim
Germany

Product Information Product Stewardship
FAX: +49 (0)208 693 2053
email: sc.psq@oq.com

1.4. Emergency telephone number

Emergency telephone number +44 (0) 1235 239 670 (UK) available 24/7
NCEC +1 202 464 2554 available 24/7
Local emergency telephone
number +61 2 8014 4558 (Australia)
18000 74234 (Australia toll-free number)
+64 9 929 1483 (New Zealand)
0800 446 881 (New Zealand toll-free number)
+65 3158 1195 (Sri Lanka)
007 803 011 0293 (Indonesia toll-free number)
+60 3 6207 4347 (Malaysia)
001 800 120 666 751 (Thailand toll-free number)
+65 3158 1200 (Bangladesh)
+63 2 8231 2149 (Philippines)
+84 28 4458 2388 (Vietnam)
+65 3165 2217 (Singapore)
available 24/7

SECTION 2: Hazards identification

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Europe

2.1. Classification of the substance or mixture

Based on present data no classification and labelling is required according to Directive 1272/2008/EC and its amendments (CLP Regulation)

2.2. Label elements

Not required.

2.3. Other hazards

None known

PBT and vPvB assessment This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

USA

2.1. Classification of the substance or mixture

This substance is not hazardous in accordance with paragraph (d) of §1910.1200 (GHS-US classification).

OSHA Specified Hazards Not applicable.

2.2. Label elements

Not required according to §1910.1200 (GHS-US labeling).

2.3. Other hazards

None known

SECTION 3: Composition / information on ingredients

3.1. Substances

Component	CAS-No	REACH-No	1272/2008/EC	Concentration (%)
2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate***	126-57-8	01-2120075160-67	-	> 85

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Keep at rest. Aerate with fresh air. When symptoms persist or in all cases of doubt seek medical advice.

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Eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Skin

Wash off immediately with soap and plenty of water. When symptoms persist or in all cases of doubt seek medical advice.

Ingestion

Call a physician immediately. Do not induce vomiting without medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Main symptoms

None known.

Special hazard

None known.

4.3. Indication of any immediate medical attention and special treatment needed

General advice

Remove contaminated, soaked clothing immediately and dispose of safely. First aider needs to protect himself.

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

foam, dry chemical, carbon dioxide (CO₂), water spray

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Under conditions giving incomplete combustion, hazardous gases produced may consist of:

carbon monoxide (CO)

carbon dioxide (CO₂)

Combustion gases of organic materials must in principle be graded as inhalation poisons

Vapours are heavier than air and may spread along floors

5.3. Advice for firefighters

Special protective equipment for firefighters

Fire fighter protection should include a self-contained breathing apparatus (NIOSH-approved or EN 133) and full fire-fighting turn out gear.

Precautions for firefighting

Cool containers / tanks with water spray. Dike and collect water used to fight fire. Keep people away from and upwind of fire.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: For personal protective equipment see section 8. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep people away from and upwind of spill/leak. Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

For emergency responders: Personal protection see section 8.

6.2. Environmental precautions

Prevent further leakage or spillage. Do not discharge product into the aquatic environment without pretreatment (biological treatment plant).

6.3. Methods and material for containment and cleaning up

Methods for containment

Stop the flow of material, if possible without risk. Dike spilled material, where this is possible.

Methods for cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum. Dispose of in accordance with local regulations. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).

6.4. Reference to other sections

For personal protective equipment see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Provide sufficient air exchange and/or exhaust in work rooms.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Advice on the protection of the environment

See Section 8: Environmental exposure controls.

Incompatible products

strong oxidizing agents
reducing agents
strong acids
bases

7.2. Conditions for safe storage, including any incompatibilities

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). In case of fire, emergency cooling with water spray should be

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available. Ground and bond containers when transferring material.

Technical measures/Storage conditions

Keep containers tightly closed in a cool, well-ventilated place. Handle and open container with care.

Temperature class

T2

7.3. Specific end use(s)

Lubricants and lubricant additives
Cosmetic ingredient

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Exposure limits European Union

No exposure limits established

Exposure limits Germany

No exposure limits established.

Exposure limits United States of America

No exposure limits established.

8.2. Exposure controls

Appropriate Engineering controls

General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Explosion-proof equipment (for example fans, switches, and grounded ducts) should be used in mechanical ventilation systems.

Personal protective equipment

General industrial hygiene practice

Avoid contact with skin, eyes and clothing. Do not breathe vapours or spray mist. Ensure that eyewash stations and safety showers are close to the workstation location.

Hygiene measures

When using, do not eat, drink or smoke. Take off all contaminated clothing immediately. Wash hands before breaks and immediately after handling the product.

Eye protection

Tightly fitting safety goggles. In addition to goggles, wear a face shield if there is a reasonable chance for splash to the face.

Hand protection

Wear protective gloves. Recommendations are listed below. Other protective material may be used, depending on the situation, if adequate degradation and permeation data is available. If other chemicals are used in conjunction with this chemical, material selection should be based on protection for all chemicals present.

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Suitable material nitrile rubber
Reference substance Di-(2-ethylhexyl)-phthalate
Evaluation according to EN 374: level 6
Glove thickness approx 0,55 mm
Break through time > 480 min

Suitable material polyvinylchloride / nitrile rubber
Reference substance Di-(2-ethylhexyl)-phthalate
Evaluation according to EN 374: level 6
Glove thickness approx 0,9 mm
Break through time > 480 min

Skin and body protection

Impervious clothing. Wear face-shield and protective suit for abnormal processing problems.

Respiratory protection

Respirator with filter for organic vapour. Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Equipment should conform to NIOSH, EN or other applicable national standards.

Environmental exposure controls

If possible use in closed systems. If leakage can not be prevented, the substance needs to be suck off at the emersion point, if possible without danger. Observe the exposure limits, clean exhaust air if needed. If recycling is not practicable, dispose of in compliance with local regulations. Inform the responsible authorities in case of leakage into the atmosphere, or of entry into waterways, soil or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance liquid
Colour light yellow
Odour weak
Odour threshold No data available
pH No data available
Melting point/range -19,9 °C (Freezing Point)
-48 °C (Pour point)
Boiling point/range 195,5 °C
Flash point 208 °C @ 1000 hPa
Method closed cup, EN ISO 3680
Evaporation rate No data available
Flammability (solid, gas) not flammable
Lower explosion limit No data available
Upper explosion limit No data available

Vapour pressure

Values [hPa]	Values [kPa]	Values [atm]	@ °C	@ °F	Method
0,0000028	0,00000028	<0,001	20	68	OECD 104
0,00011	0,000011	<0,001	100	212	OECD 104

Vapour density No data available

Relative density

Values	@ °C	@ °F	Method
0,948	20	68	EN ISO 12185

Solubility 0,078 µg/l @ 22 °C, in water, OECD 105

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log Pow	> 6,2 @ 25 °C (77 °F), OECD 117
Autoignition temperature	389 °C @ 1010 hPa
Method	ASTM E 659
Decomposition temperature	No data available
Viscosity	46,07 mm ² /s @ 20°C
Method	kinematic, EN ISO 3104
Oxidizing properties	Does not apply, substance is not oxidising. There are no chemical groups associated with oxidizing properties
Explosive properties	Does not apply, substance is not explosive. There are no chemical groups associated with explosive properties

9.2. Other information

Molecular weight	554,85
Molecular formula	C33 H62 O6
log Koc	7,68 calculated
Refractive index	1,454 @ 20 °C
Surface tension	29,6 mN/m @ 20 °C, ISO 304

SECTION 10: Stability and Reactivity

10.1. Reactivity

The reactivity of the product corresponds to the typical reactivity shown by the substance group as described in any text book on organic chemistry.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

Avoid contact with heat, sparks, open flame and static discharge. Avoid any source of ignition.

10.5. Incompatible materials

strong oxidizing agents, reducing agents, strong acids, bases.

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Likely routes of exposure Ingestion, Inhalation, Eye contact, Skin contact

Acute toxicity

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)

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Routes of Exposure	Endpoint	Values	Species	Method
Oral	LD50	> 2000 mg/kg	rat, female	OECD 423
Dermal	LD50	> 2000 mg/kg	rat, male/female	OECD 402

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

Assessment

Based on available data, the classification criteria are not met for:

Acute oral toxicity

Acute dermal toxicity

STOT SE

For acute inhalation toxicity, a study is scientifically unjustified

Irritation and corrosion

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)

Target Organ Effects	Species	Result	Method	
Skin	human skin model	No skin irritation	OECD 431	in vitro
Eyes	rabbit	No eye irritation	OECD 405	in vitro

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

Assessment

Based on available data, the classification criteria are not met for:

skin irritation/corrosion

eye irritation/corrosion

For skin irritation, no data are available

Sensitization

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)

Target Organ Effects	Species	Evaluation	Method	
Skin	guinea pig female	not sensitizing	OECD 406	

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

Assessment

Based on available data, the classification criteria are not met for:

Skin sensitization

For respiratory sensitization, no data are available

Subacute, subchronic and prolonged toxicity

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)

Type	Dose	Species	Method	
Subacute toxicity	NOAEL: 1000 mg/kg/d	rat, male/female	OECD 422 Oral	

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

Assessment

Based on available data, the classification criteria are not met for:

STOT RE

Carcinogenicity, Mutagenicity, Reproductive toxicity

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)

Type	Dose	Species	Evaluation	Method	
Mutagenicity		Salmonella typhimurium Escherichia coli	negative	OECD 471 (Ames)	In vitro study
Mutagenicity		human	negative	OECD 487	In vitro study

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		lymphocytes			
Mutagenicity		mouse lymphoma cells	negative	OECD 476 (Mammalian Gene Mutation)	In vitro study
Reproductive toxicity	NOAEL > 1000 mg/kg/d	rat, parental rat, 1. Generation, male/female		OECD 422, Oral	
Developmental Toxicity	NOAEL > 2000 mg/kg/d	rat		OECD 414, Dermal	Developmental toxicity read across
Developmental Toxicity	NOAEL 2000 mg/kg/d	rat		OECD 414, Dermal	Maternal toxicity read across

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

CMR Classification

The available data on CMR properties are summarized in the table above. They do not indicate a classification into categories 1A or 1B

Evaluation

In vitro tests did not show mutagenic effects

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

Target Organ Systemic Toxicant - Single exposure

Based on available data, the classification criteria are not met for:
STOT SE

Target Organ Systemic Toxicant - Repeated exposure

Based on available data, the classification criteria are not met for:
STOT RE

Aspiration toxicity

no data available

Note

Handle in accordance with good industrial hygiene and safety practice. Further details on substance data can be found in the registration dossier under the following link:

<http://echa.europa.eu/information-on-chemicals/registered-substances>.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity			
2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)			
Species	Exposure time	Dose	Method
Danio rerio (Zebra fish)	96h	LC50: > 124 mg/l	OECD 203
Daphnia magna (Water flea)	48h	EC50: > 9,3 mg/l	OECD 202
Desmodesmus subspicatus	72h	EC50: > 4,4 mg/l (Growth rate)	OECD 201

Long term toxicity			
2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)			
Type	Species	Dose	Method
Aquatic toxicity	Danio rerio (Zebra fish)	NOEC: ≥ 0,00006 mg/l (34d)	OECD 210
Reproductive toxicity	Daphnia magna (Water flea)	NOEC: ≥ 0,00016 mg/l (21d)	OECD 211

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Aquatic toxicity	Desmodesmus subspicatus	LC50: > 4,4 mg/l/3d	OECD 201	
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12.2. Persistence and degradability

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

Biodegradation

75,98 % (28 d), OECD 301 B, activated sludge (domestic), adapted, aerobic.

Abiotic Degradation		
2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)		
Type	Result	Method
Hydrolysis	The Substance is highly insoluble in water	
Photolysis	No data available	

12.3. Bioaccumulative potential

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)		
Type	Result	Method
log Pow	> 6,2 @ 25 °C (77 °F)***	measured, OECD 117
BCF	41,6 l/kg	QSAR

12.4. Mobility in soil

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate (126-57-8)		
Type	Result	Method
Surface tension	29,6 mN/m @ 20 °C (68 °F)	ISO 304
Adsorption/Desorption	log Koc: 7,68	calculated
Distribution to environmental compartments	no data available	

12.5. Results of PBT and vPvB assessment

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

PBT and vPvB assessment

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT), nor very persistent nor very bioaccumulating (vPvB)

12.6. Other adverse effects

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product Information

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Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal.

Uncleaned empty packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

SECTION 14: Transport information

Section 14.1 - 14.6

ICAO-TI / IATA-DGR Not restricted

IMDG Not restricted

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code not applicable

ADR/RID Not restricted

SECTION 15: Regulatory information

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

Regulation 1272/2008, Annex VI not listed

DI 2012/18/EU (Seveso III)

Category not subject

DI 1999/13/EC (VOC Guideline)

Component	Status
2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*** CAS: 126-57-8	not subject***

International Inventories

2-Ethyl-2-[[[(1-oxononyl)oxy]methyl]propane-1,3-diyl dinonan-1-oate*, CAS: 126-57-8**

AICS (AU)
DSL (CA)
IECSC (CN)
EC-No. 2047936 (EU)
ENCS (2)-2491 (JP)
ISHL (2)-2491 (JP)

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KECI KE-26174 (KR)
PICCS (PH)
TSCA (US)
NZIoC-NZ with note***
TCSI (TW)

SECTION 16: Other information

Abbreviations

A table of terms and abbreviations can be found under the following link:
http://echa.europa.eu/documents/10162/13632/information_requirements_r20_en.pdf

Training advice

For effective first-aid, special training / education is needed.

Sources of key data used to compile the datasheet

Information contained in this safety data sheet is based on OQ owned data and public sources deemed valid or acceptable. The absence of data elements required by OSHA, ANSI or Annex II, Regulation 1907/2006/EC indicates, that no data meeting these requirements is available.

Further information for the safety data sheet

Changes against the previous version are marked by ***. Observe national and local legal requirements. For more information, other material safety data sheets or technical data sheets please consult the OQ homepage (www.chemicals.oq.com).

The annex is not required because the substance is not hazardous under REACH

Disclaimer

For industrial use only. The information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. OQ makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

End of Safety Data Sheet