

1. Identification of the substance/ mixture and of the company/ undertaking

Product identifier

Product name: LEYBONOL LVO 520

Product description: Silicone diffusion pump oil

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

No information available

Order number:	Number	Package Size
	L52001	1 Liter
	L52005	5 Liter

Details of the supplier of the safety data sheet

Supplier: Leybold GmbH
Bonner Strasse 498
D-50968 Cologne
Phone +49-221-347-0
Fax +49-221-347-1250
Internet www.leybold.com

E-Mail: documentation@leybold.com

Emergency phone number: +49/ (0)700 24112112 (OLC)

2. Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS].

2.2. Label Elements

Product Identifier

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS].

Signal Word

None

EUH210 - Safety data sheet available on request

2.3. Other Hazards

No information available

3. Composition/ information on ingredients

3.1 Substances: Not applicable

3.2 Mixtures

Chemical name	EC No:	CAS No	REACH registration number	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Weight-%
Tetraphenyldimethyldisiloxane	212-361-3	807-28-3	No data available	Aquatic Chronic 4 (H413)	1-5

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

4. First aid measures

4.1 Description of first aid measures

General information:	When in doubt or if symptoms are observed, get medical advice.
Inhalation:	Remove to fresh air.
Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye Contact:	If substance enters the eyes, immediately rinse with plenty of water for several minutes.
Ingestion:	Call a doctor immediately. Never give anything by mouth to an unconscious person. Do NOT induce vomiting.

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

Symptoms:	None known.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors:	Treat symptomatically.
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5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Use. Carbon dioxide (CO ₂). Extinguishing powder. Alcohol resistant foam. Cool containers with flooding quantities of water until well after fire is out.
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Unsuitable extinguishing media:	Do not use a solid water stream as it may scatter and spread fire
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5.2 Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapours

Hazardous combustion products:	Carbon dioxide (CO ₂), Carbon monoxide, Nitrogen oxides (NO _x).
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5.3 Advice for firefighters:	In the event of fire and/or explosion do not breathe fumes. Use water spray jet to protect personnel and to cool endangered containers. Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Do not allow run-off from fire-fighting to enter drains or water courses.
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6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions:	Special danger of slipping by leaking/spilling product. Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Evacuate personnel to safe areas.
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For emergency responders:	Use personal protection recommended in Section 8.
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6.2 Environmental precautions:	See Section 12 for additional Ecological Information.
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6.3 Methods and material for containment and cleaning up

Methods for Containment:	Prevent further leakage or spillage if safe to do so.
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Methods for cleaning up: Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. |

6.4 Reference to other sections: See section 8 for national exposure control parameters. See Section 12 for additional Ecological Information. |

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Ensure adequate ventilation, especially in confined areas. Do not breathe gas/fumes/vapour/spray. Use personal protective equipment as required. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. |

General hygiene considerations: Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. |

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Never use pressure to empty; drum is not a pressure vessel. |

7.3. Specific end use(s)

Risk Management Methods (RMM): The information required is contained in this Material Safety Data Sheet. |

8. Exposure controls/ personal protection

8.1. Control parameters

Exposure Limits: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. |

Derived No Effect Level (DNEL): No information available |

Predicted No Effect Concentration (PNEC): No information available. |

8.2. Exposure controls

Engineering controls: Ensure adequate ventilation, especially in confined areas. |

Personal Protective Equipment

Eye/face Protection: Wear safety glasses with side shields (or goggles). |

Hand protection: Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. |

Skin and Body Protection: Suitable protective clothing. Wear protective gloves. To protect the wearer, gloves must be the correct fit and be used properly. Ensure that the breakthrough time of the glove material is not exceeded. |

	Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374
Respiratory protection:	None under normal use conditions.
Environmental exposure controls:	Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State:	Liquid
Appearance:	No information available
Odour:	characteristic
Colour:	light yellow
Odour threshold:	No information available

Property	Values	Remarks • Method
pH:		No information available
Melting point/freezing point:		No information available
Boiling point / boiling range:	> 300 °C / 572 °F	
Flash Point:	> 210 °C / > 410 °F	
Evaporation Rate:		No information available
Flammability (solid, gas):		No information available
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapour pressure:	No data available	@ 20°C
	< 1000.0 hPa	@ 50°C
Vapour Density:		No information available
Specific gravity:	No data available	@ 20°C
	1.070 g/cm ³	@ 25°C
Water solubility:	No data available	@ 20°C
Solubility(ies):		No information available
Partition coefficient:		No information available
Autoignition Temperature:		No information available
Decomposition temperature:		No information available
Kinematic viscosity:	No data available	@ 40 °C
	38.0 mm ² /s	@ 25°C
Dynamic viscosity:	No data available	@ 40 °C
Explosive properties:	No information available	
Oxidising properties:	No information available	

9.2. Other information

No information available

10. Stability and reactivity

10.1 Reactivity:	No data available.
10.2 Chemical stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	None under normal processing.
10.4 Conditions to avoid:	None known based on information supplied.
10.5 Incompatible materials:	Incompatible with oxidising agents. Acids. Bases.
10.6 Hazardous decomposition products:	Thermal decomposition can lead to release of irritating and toxic gases and vapours. Carbon dioxide (CO ₂). Carbon monoxide. Nitrogen oxides (NO _x).

11. Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product Information

Product does not present an acute toxicity hazard based on known or supplied information. |

Inhalation: No data available. |

Eye Contact: No data available. |

Skin contact: No data available. |

Ingestion: No data available. |

Oral LD50

> 2000 mg/kg Rat |

Dermal LD50

> 2000 mg/kg: Rabbit |

Unknown acute toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity. |

Skin corrosion/irritation: No information available. |

Serious eye damage/eye irritation: No information available. |

Sensitisation: No information available. |

Germ Cell Mutagenicity: No information available. |

Carcinogenicity: No information available. |

Reproductive Toxicity: No information available. |

STOT - single exposure: No information available. |

STOT - repeated exposure: No information available. |

Aspiration Hazard: No information available. |

12. Ecological information

12.1. Toxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment |

Product Information

Acute (short-term) algae toxicity

EC50: No information available. |

EC0: No information available. |

IC50: No information available. |

IC0: No information available. |

ErC50: No information available. |

EbC50:	No information available.	
Acute (short-term) fish toxicity		
LC50:	No information available.	
LC0:	No information available.	
EC50:	No information available.	
EC0:	No information available.	
Acute (short-term) aquatic invertebrate toxicity		
EC50:	No information available.	
EC0:	No information available.	
Chronic (long-term) algae toxicity		
NOEC:	No information available.	
LOEC:	No information available.	
Chronic (long-term) fish toxicity		
NOEC:	No information available.	
LOEC:	No information available.	
Chronic (long-term) aquatic invertebrate toxicity		
NOEC:	No information available.	
LOEC:	No information available.	
12.2. Persistence and degradability		
Product Information		
Biodegradation:	No information available.	
BOD:	No information available.	
ThCO₂:	No information available.	
DOC:	No information available.	
12.3. Bioaccumulative potential		
Product Information		
Bioaccumulation (factor):	No information available.	
12.4. Mobility in soil:		
	No information available.	
12.5. Results of PBT and vPvB assessment:		
	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be persistent, bio-accumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating	

(vPvB). This preparation contains no substance considered to be very persistent nor very bio-accumulating (vPvB).

12.6. Other adverse effects: No information available.

13. Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products:

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging:

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Clean IBCs or drums at approved facility. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself.

14. Transport information

ADR

14.1. UN number: Not regulated
 14.2. UN proper shipping name: Not regulated
 14.3. Transport hazard class(es): Not regulated
 Labels: -
 14.4. Packing group: Not regulated
 Description: -
 14.5. Environmental hazards: Not applicable
 14.6. Special precautions for user: None
 Classification code: -
 Tunnel restriction code: -
 Limited quantity (LQ): -
 ADR Hazard Id (Kemmler Number): -
 Note: -

RID

14.1. UN number: Not regulated
 14.2. UN proper shipping name: Not regulated
 14.3. Transport hazard class(es): Not regulated
 Labels: -
 14.4. Packing group: Not regulated
 Description: -
 14.5. Environmental hazards: Not applicable
 14.6. Special precautions for user: None
 Classification code: -
 Limited quantity (LQ): -
 Note: -

IMDG

14.1. UN number: Not regulated
 14.2. UN proper shipping name: Not regulated
 14.3. Transport hazard class(es): Not regulated
 Subsidiary hazard class: -
 14.4. Packing group: Not regulated
 Description: -
 14.5. Environmental hazards: Not applicable
 14.6. Special precautions for user: None
 EmS-No: -
 Limited quantity (LQ): -
 Note: -

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

No information available

IATA

14.1. UN number:	Not regulated
14.2. UN proper shipping name:	Not regulated
14.3. Transport hazard class(es):	Not regulated
Subsidiary hazard class:	-
14.4. Packing group:	Not regulated
Description:	-
14.5. Environmental hazards:	Not applicable
14.6. Special precautions for user:	None
ERG Code:	-
Limited quantity (LQ):	-
Note:	-

15. Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National Regulations:** See section 8 for national exposure control parameters**Storage class:** 10**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

All of the components in the product are on the following Inventory lists: TSCA (United States), Europe (EINECS/ELINCS/NLP).

15.2. Chemical safety assessment:

For this substance a chemical safety assessment has not been carried out. Chemical safety assessments for substances in this mixture were not carried out.

16. Other information**Full text of H-Statements referred to under sections 2 and 3**

H413 - May cause long lasting harmful effects to aquatic life

History**Date of issue:** November 23, 2011**Date of revision:** November 03, 2015**Version:** C0

| Indicates information that has changed from previously issued version.

Notice to reader

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The information contained therein is protected by copyright and must not be reproduced or amended without the express written approval of Leybold. This document may be passed on only to the extent required by law. Any dissemination of our safety datasheets (e.g. as a document for download from the Internet) beyond this legally required extent is not permitted without express written consent.
