

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

### Product identifier

**Trade name:** LEYBONOL LVO 810  
LITHELEN

**Uses:** Industrial use, lubricant

Order number:	Number	Package size
	L81005	Tube 50g
	17644	Tube 50g
	L81099	2 Kg

### 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

#### Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

### 2.2 Label elements

Not relevant

### 2.3 Other hazards

No data available.

## 3. Composition/information on ingredients

**3.1 Substances:** Not applicable. The product is not a substance.

**3.2 Mixtures:** Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	silicon dioxide, chemically prepared			
	7631-86-9 231-545-4 - 01-2119379499-16	-	< 5,00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

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## 4. First aid measures

### 4.1 Description of first aid measures

<b>General information:</b>	Remove contaminated clothing and shoes and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician.	
<b>After inhalation:</b>	Remove to fresh air, keep patient warm and at rest.	
<b>After skin contact:</b>	When in contact with the skin, clean with soap and water.	
<b>After eye contact:</b>	Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes).	
<b>After ingestion:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.	

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

No data available.

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

No data available.

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## 5. Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media:** Foam; Carbon dioxide; Extinguishing powder

**Unsuitable extinguishing media:** Water

### 5.2 Special hazards arising from the substance or mixture:

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); lithium oxide

**5.3 Advice for firefighters:** Use self-contained breathing apparatus. Wear protective clothing.

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## 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel:** Avoid dust formation. Ensure adequate ventilation. Refer to protective measures listed in sections 7 and 8.

**For emergency responders:** Personal protective equipment (PPE) - see Section 8.

### 6.2 Environmental precautions

**Environmental precautions:** Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

**6.4 Reference to other sections:** No data available.

## 7. Handling and storage

### 7.1 Precautions for safe handling

**Advice on safe handling:** Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation, if necessary).

**General protective and hygiene measures:** Do not eat, drink or smoke during work time. Keep away from food, drink and animal feeding stuffs. Wash hands before breaks and after work.

**Advice on protection against fire and explosion:** No special measures necessary.

### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels:** Always keep in containers of same material as the original one. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Advice on storage assembly:** Do not store together with: Oxidizing agents

**7.3 Specific end use(s):** No data available.

## 8. Exposure controls/personal protection

No	Substance name	CAS no.	EC no.
1	silicon dioxide, chemically prepared	7631-86-9	231-545-4
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	<b>Silica, amorphous</b>		
	inhalable dust		
	TWA	6 mg/m <sup>3</sup>	
	<b>List of approved workplace exposure limits (WELs) / EH40</b>		
	<b>Silica, amorphous</b>		
	respirable dust		
	TWA	2.4 mg/m <sup>3</sup>	

### 8.2 Exposure controls

**Appropriate engineering controls:** No data available.

#### Personal protective equipment

**Respiratory protection:** If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

**Eye protection:** Safety glasses (EN 166)

**Hand protection:** Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn.

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Date of issue: July 20, 2011  
Date of revision: Feb 05, 2016

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Design operations thus to avoid permanent use of protective gloves.  
Appropriate Material: nitrile rubber

**Other:** Normal chemical work clothing. |

**Environmental exposure controls:** No data available. |

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form:	pasty
Colour:	brown
Odour:	uncharacteristic
Odour threshold:	No data available
pH value:	No data available
Boiling point/ boiling range:	Not determined
Melting point/ melting range:	No data available
Decomposition point/ decomposition range:	No data available
Dropping point:	Value: > 210 °C
Flash point:	Not applicable
Auto-ignition temperature:	No data available
Oxidising properties:	No data available
Explosive properties:	No data available
Flammability (solid, gas):	No data available
Lower flammability or explosive limits:	No data available
Upper flammability or explosive limits:	No data available
Vapour pressure:	Not applicable
Vapour density:	No data available
Evaporation rate:	No data available
Relative density:	No data available
Density:	No data available
Solubility in water:	Remarks: essentially insoluble
Solubility(ies):	No data available
Partition coefficient: n-octanol/water:	No data available
Viscosity:	No data available

### 9.2 Other information

Other information: No data available. |

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## 10. Stability and reactivity

**10.1 Reactivity:** Dangerous reactions are not expected if the product is handled according to its intended use. |

**10.2 Chemical stability:** Stable under recommended storage and handling conditions (See section 7). |

**10.3 Possibility of hazardous reactions:** None, if handled according to order. |

**10.4 Conditions to avoid:** Protect from sun. Stable under recommended storage and handling conditions (See section 7). |

**10.5 Incompatible materials:** Oxidizing agents |

**10.6 Hazardous decomposition products:** No hazardous decomposition products known. |

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## 11. Toxicological information

### 11.1 Information on toxicological effects

<b>Acute oral toxicity:</b>	No data available	
<b>Acute dermal toxicity:</b>	No data available.	
<b>Acute inhalational toxicity:</b>	No data available.	
<b>Skin corrosion/irritation:</b>	No data available	
<b>Serious eye damage/irritation:</b>	No data available	
<b>Respiratory or skin sensitisation:</b>	No data available	
<b>Germ cell mutagenicity:</b>	No data available	
<b>Reproduction toxicity:</b>	No data available.	
<b>Carcinogenicity:</b>	No data available.	
<b>STOT-single exposure:</b>	No data available	
<b>STOT-repeated exposure:</b>	No data available	
<b>Aspiration hazard:</b>	No data available	

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## 12. Ecological information

### 12.1 Toxicity

<b>Toxicity to fish (acute):</b>	No data available	
<b>Toxicity to fish (chronic):</b>	No data available	
<b>Toxicity to Daphnia (acute):</b>	No data available	
<b>Toxicity to Daphnia (chronic):</b>	No data available	
<b>Toxicity to algae (acute):</b>	No data available	
<b>Toxicity to algae (chronic):</b>	No data available	
<b>Bacteria toxicity:</b>	No data available	
<b>12.2 Persistence and degradability:</b>	No data available	
<b>12.3 Bioaccumulative potential:</b>	No data available	
<b>12.4 Mobility in soil:</b>	No data available	
<b>12.5 Results of PBT and vPvB assessment:</b>	No data available	
<b>12.6 Other adverse effects:</b>	No data available	

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## 13. Disposal considerations

### 13.1 Waste treatment methods

**Product:** Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging:** Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

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## 14. Transport information

**14.1 Transport ADR/RID/AND:** The product is not subject to ADR/RID/ADN regulations. |

**14.2 Transport IMDG:** The product is not subject to IMDG regulations. |

**14.3 Transport ICAO-TI / IATA:** The product is not subject to ICAO-TI / IATA regulations. |

**14.4 Other information:** No data available. |

**14.5 Environmental hazards:** Information on environmental hazards, if relevant, please see 14.1 - 14.3. |

**14.6 Special precautions for user:** No data available. |

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code:** Not relevant |

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## 15. Regulatory information

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

#### EU regulations

##### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006. |

##### REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006. |

##### Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006. |

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I. |

**15.2 Chemical safety assessment:** For this mixture a chemical safety assessment has not been carried out. |

## 16. Other information

### Sources of key data used to compile the data sheet:

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter. Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case. National Threshold Limit Values of the corresponding countries as amended in each case. EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU |

### History

**Date of issue:** July 20, 2011  
**Date of revision:** February 05, 2016  
**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.

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