

## SAFETY DATA SHEET

Trade name:

**LEYBONOL LVO 100**

Date of issue: June 25, 2009

Date of revision: Sep 19, 2011

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

#### Product identifier

**Trade name:** LEYBONOL LVO 100

**Product description:** Mineral oil, free of additives

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

**Use:** Vacuum pump oil, Industrial use, lubricant

**Uses advised against:** This product should not be used in breathing air compressors.

#### Order number:

Number	Package Size
L10001	1 Liter
L10005	5 Liter
L10020	20 Liter
L10099	208 Liter

#### Details of the supplier of the safety data sheet

#### Supplier

Oerlikon Leybold Vacuum GmbH  
Bonner Str. 498  
D-50968 Cologne  
Phone +49-221-347-0  
Fax +49-221-347-1250  
Internet [www.oerlikon.com/leyboldvacuum](http://www.oerlikon.com/leyboldvacuum)

**E-Mail:** [documentation.vacuum@oerlikon.com](mailto:documentation.vacuum@oerlikon.com)

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

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### 2. Hazards identification

#### 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).

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### 3. Composition/information on ingredients

**Chemical characterization:** Highly refined base oil (IP 346 DMSO extract < 3%)

**Substance / product identification:** Index no. 649-454-00-7  
CAS no. 64741-88-4  
EC no. 265-090-8

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### 4. First aid measures

**General information:** In all cases of doubt, or when sickness symptoms persist, seek medical attention. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

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<b>After inhalation:</b>	Remove affected person from the immediate area. Ensure supply of fresh air.
<b>After skin contact:</b>	When in contact with the skin, clean with soap and water.
<b>After eye contact:</b>	Separate eyelids, wash the eyes thoroughly with water (15 min.).
<b>After ingestion:</b>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.
<b>Advice to doctor</b>	
<b>Treatment:</b>	Treat symptomatically

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### 5. Firefighting measures

<b>Suitable extinguishing media:</b>	extinguishing powder; Foam; Carbon dioxide
<b>Extinguishing media that must not be used for safety reasons:</b>	Water
<b>Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:</b>	In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO <sub>2</sub> ); Combustion products of this material have to be classed invariably as respiratory poison.
<b>Special protective equipment for fire-fighters:</b>	Use self-contained breathing apparatus. Wear protective clothing.
<b>Other information:</b>	Run-off water from fire fighting must not be discharged into drains or enter surface water. Pressure increase, bursting and explosion hazard during heating.

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### 6. Accidental release measures

<b>Personal precautions:</b>	Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation.
<b>Environmental precautions:</b>	Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.
<b>Methods for cleaning up/taking up:</b>	Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

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### 7. Handling and storage

#### Handling

<b>Advice on safe handling:</b>	Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation, if necessary).
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### Storage 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

### Further information on storage conditions:

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

## 8. Exposure controls/personal protection

### Exposure limit values:

None.

### Exposure controls

### 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 aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Hand protection:

Sufficient protection is given wearing suitable protective glove 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. Design operations thus to avoid permanent use of protective gloves.

#### Eye protection:

Safety glasses (EN 166)

#### Skin protection:

Normal chemical work clothing. General protective and hygiene measures Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Remove soiled or soaked clothing immediately. Wash soiled clothing immediately.

## 9. Physical and chemical properties

### General information

Form: liquid  
Colour: amber  
Odour: odourless

### Important health, safety and environmental information

#### Changes in physical state

Type: Pourpoint  
Value: -9 °C

#### Flash point

Value: 250 °C  
Method: Cleveland open cup

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### Explosion limits

Upper explosion limit: 4,5 % vol  
Lower explosion limit: 0,45 % vol

### Density

Value: 0,878 g/cm<sup>3</sup>  
Reference temperature: 15 °C

### Viscosity

Type: kinematic  
Value: 92 mm<sup>2</sup>/s  
Reference temperature: 40 °C  
Type: kinematic  
Value: 10,6 mm<sup>2</sup>/s  
Reference temperature: 100 °C

### Solubility in water

Remarks: insoluble

### pH value

Remarks: no data available

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## 10. Stability and reactivity

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

**Materials to avoid:** Oxidizing agents

**Hazardous decomposition products:** Carbon monoxide and carbon dioxide

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## 11. Toxicological information

### Acute toxicity

#### Acute oral toxicity

LD50: > 5000 mg/kg  
Species: rat  
Source: IUCLID

#### Acute dermal toxicity

LD50: > 2000 mg/kg  
Species: rat  
Source: IUCLID

#### Acute inhalational toxicity

Remarks: No data available.

### Irritant/corrosive effects

#### Irritant effect on skin

Species: rabbit  
Evaluation: slightly irritant  
Source: IUCLID

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### Irritant effect on eyes

Species: rabbit  
Evaluation: non-irritant  
Source: IUCLID

### Sensitisation

Species: guinea pig  
Evaluation: Non-sensitizing  
Source: IUCLID

### Effects after repeated or prolonged exposition (subacute, subchronic, chronic)

Remarks: No data available.

**Mutagenicity:** No data available.

**Reproduction toxicity:** No data available.

**Carcinogenicity:** No data available.

**Experience in practice:** Inhalation of thermic decomposition products such as vapour, mist or smoke can affect health.

## 12. Ecological information

### Ecotoxicity

#### Fish toxicity

LC50: > 5000 mg/l  
Species: Oncorhynchus mykiss  
Duration of exposure: 96 h  
Source: IUCLID

#### Daphnia toxicity

EC50: > 1000  
Species: Daphnia magna  
Duration of exposure: 48 h  
Source: IUCLID

#### Algae toxicity

EC50: > 1000 mg/l  
Species: Scenedesmus subspicatus  
Duration of exposure: 96 h  
Source: IUCLID

### Results of PBT and vPvB assessment

**PBT assessment:** The product is not considered to be a PBT.

**vPvB assessment:** The product is not considered to be a vPvB. Other information Do not discharge product unmonitored into the environment.

**Other information:** Do not discharge product unmonitored into the environment. |

## 13. Disposal considerations

**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.

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**Packaging:**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

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### 14. Transport information

**Other information:**

The product is not defined under national/international road, rail, sea and air transport regulations as a hazardous material.

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### 15. Regulatory information

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

**EU regulations**

**Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances**

Remarks:

Annex I, part 1 + 2: not mentioned. With regard to possibly appropriate decomposition products see Chapter 10.

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### 16. Other information

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

EC Directive 67/548/EC resp. 99/45/EC as amended in each case. Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EC National Threshold Limit Values of the corresponding countries as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case. The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### History

**Date of issue:**

June 25, 2009

**Version:**

A2

| Indicates information that has changed from previously issued version.

### Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.