

SAFETY DATA SHEET

Trade name:

LEYBONOL LVO 600

Date of issue: June 30, 2011

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

Product identifier

Trade name: LEYBONOL LVO 600

Product description: White oil

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

Uses: Vacuum pump oil, Industrial use, lubricant

Order number:	Number	Package Size
	L60001	1 Liter
	L60005	5 Liter
	L60020	20 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

E-Mail: documentation.vacuum@oerlikon.com

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

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).

3. Composition/ information on ingredients

Chemical characterization: White mineral oil (petroleum), contains 5,0 - 10,0 ppm vitamin E (CAS No. 10191-41-0)

Substance / product identification

CAS no.: 8042-47-5
EC no.: 232-455-8

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.

After inhalation: Remove affected person from the immediate area. Ensure supply of fresh air.

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After skin contact:	When in contact with the skin, clean with soap and water.
After eye contact:	Separate eyelids, wash the eyes thoroughly with water (15 min.).
After ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor.

5. Firefighting measures

Suitable extinguishing media: extinguishing powder; Foam; Carbon dioxide; Water spray jet

Extinguishing media that must not be used for safety reasons: Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Combustion products of this material have to be classed invariably as respiratory poison.

Special protective equipment for fire-fighters: Use self-contained breathing apparatus. Wear protective clothing.

Other information: The burning product floats on water. Risk of spreading of fire!: Cool endangered containers with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water.

6. Accidental release measures

Personal precautions: Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Do not inhale vapours. Keep away sources of ignition.

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

Methods for cleaning up/taking up: Prevent spread over a wide area (by containment with sand or earth). Pick up with absorbent material (e.g., sand, sawdust, general-purpose binder). Send in suitable containers for recovery or disposal.

Additional informations (chapter 6): Risk of slipping due to leakage/spillage of product.

7. Handling and storage

Handling

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

Advice on protection against fire and explosion: Keep away from sources of ignition - refrain from smoking. Take precautionary measures against static charges. Vapours can form an explosive mixture with air.

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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; combustible materials

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:

N O N E

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 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. 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. Do not inhale vapours.

9. Physical and chemical properties

General information

Form: liquid
Colour: colourless, clear
Odour: neutral

Important health, safety and environmental information

Changes in physical state

Type: Boiling point
Value: appr. 310 °C

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Flash point

Value: > 188 °C
Method: Cleveland open cup

Density

Value: 870 kg/m³
Reference temperature: 25 °C

Viscosity

Type: kinematic
Value: ca. 60 mm²/s
Reference temperature: 40 °C

Soluble in: organic solvents

Solubility in water

Remarks: insoluble

Octanol/water partition coefficient (log Pow)

Value: > 6

10. Stability and reactivity

Conditions to avoid: Heat, naked flames and other ignition sources. Protect from sun.

Materials to avoid: Oxidizing agents; combustible materials

Hazardous decomposition products: Carbon monoxide and carbon dioxide; Toxic gases/vapours

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

Acute inhalational toxicity

Remarks: No data available.

Irritant/corrosive effects

Irritant effect on skin

Species: guinea pig
Evaluation: slightly irritant
Source: IUCLID

Irritant effect on eyes

Species: rabbit
Evaluation: non-irritant
Source: IUCLID

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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: Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Inhalation can cause damage to the respiratory tract or lungs.

12. Ecological information

Ecotoxicity

Fish toxicity

LC50: > 10 g/l
Species: Lepomis macrochirus
Duration of exposure: 96 h
Source: IUCLID

Daphnia toxicity

Remarks: No data available.

Algae toxicity

Remarks: No data available.

Persistence and degradability

Physico-chemical eliminability

Remarks: The product is insoluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

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.

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.

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.

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.

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.
