



## **MATERIAL SAFETY DATA SHEET**

Trade name: LEYBONOL LVO 100 Date of issue: July 20, 2011

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

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 USA Inc.

5700 Mellon Road USA-Export, PA 15632

Phone +1-724-327-5700 Fax +1-724-325-3577

Internet www.oerlikon.com/leyboldvacuum

**E-Mail:** info.vacuum.ex@oerlikon.com

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

2. Hazards identification

**Potential Health Effects** 

**Eye:** No hazard in normal industrial use.

**Skin:** No hazard in normal industrial use.

**Inhalation:** No hazard in normal industrial use.

**Ingestion:** May cause vomiting.

**Cancer:** None of the components present in this material at concentrations

equal or greater than 0.1% is listed by IARC, NTP, OSHA or ACGIH  $\,$ 

as a carcinogen.

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

4. First aid measures

medical attention. Remove contaminated clothing and shoes

immediately, and launder thoroughly before reusing.





## **MATERIAL SAFETY DATA SHEET**

Trade name: LEYBONOL LVO 100 Date of issue: July 20, 2011

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

fresh air.

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.

Advice to doctor

Treatment: Treat symptomatically

5. Firefighting measures

Suitable extinguishing media: extinguishing powder; Foam; Carbon dioxide

Extinguishing media that must not be

used for safety reasons:

Water

Special exposure hazards arising from the substance or preparation itself, its combustion products or from 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 firefighting:

As in any fire, wear self-contained breathing apparatus pressure -

demand, MSHA/ NIOSH (approved or equivalent) and full protective

gear.

Other information: Run-off water from fire fighting must not be discharged into drains

or enter surface water. Pressure increase, bursting and explosion

hazard during heating.

6. Accidental release measures

**Personal precautions:** Refer to protective measures listed in sections 7 and 8. Ensure

adequate ventilation.

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

not discharge into the subsoil/soil.

**Methods for cleaning up/taking up:** Pick up with absorbent material (e.g., sand, sawdust, general-

purpose binder). Send in suitable containers for recovery or disposal.

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).





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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.

**Hints 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. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions

warrant a respirator's use.

**Hand protection:** Glove permeation data does not exist for this material. The following

glove(s) should be used for splash protection only. Appropriate

Material rubber

**Eye protection:** Use chemical splash goggles and face shield (ANSI Z87.1 or

approved equivalent).

**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
Color: amber
Odor: odorless

Important health, safety and environmental information

Changes in physical state

Type: Pourpoint Value: Pourpoint 15.8 ° F





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Flash point

Value: 482 ° F

Method: Cleveland open cup

**Explosion limits** 

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

**Density** 

Value: 7.33 lbs/gallon

Reference temperature: 59 ° F

**Viscosity** 

Type: kinematic
Value: 92 cSt
Reference temperature: 104 ° F
Type: kinematic
Value: 10,6 cSt
Reference temperature: 212 ° F

Solubility in water

Remarks: insoluble

pH value

Remarks: no data available

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

#### 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

Sensitization

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

Effects after repeated or prolonged exposition (subacute, subchronic, cronic)

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.

13. Disposal considerations

**Product:** Dispose in accordance with federal, state and local regulations.





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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. Not DOT

regulated.

15. Regulatory information

**US FEDERAL REGULATIONS** 

**Toxic Substances Control Act (TSCA):** All of the components of this product are either listed on the TSCA

Inventory or are not subject to the notification requirements (exempt).

Clean Water Act (CWA): None of the ingredients is listed.

**OSHA** 

OSHA: None of the ingredients is "hazardous" according to the of the Hazard

Communication Standard (29 CFR 1910.1200)

SARA Section 302 (RQ): None of the ingredients is listed.

**SARA 311/312** 

Hazard category: none

SARA Section 313: None of the ingredients is listed.

**HAPS Hazardous Air Pollutants:** None of the ingredients is listed.

**HMIS Classification** 

Health 0 Flammability 1 Reactivity 0 PPE C

**NFPA Rating** 

Health 0 Fire Hazard 1 Reactivity 0

**CARCINOGENICITY** 

IARC: None of the ingredients is listed in group 1, 2A or 2B.

**US STATE REGULATIONS** 

New Jersey Worker and Community Right to Know Act.

Following ingredients are listed

CAS no.: 64741-88-4

California Proposition 65.: None of the ingredients is listed.

Pennsylvania HAZARDOUS

**SUBSTANCE LIST:** None of the ingredients is listed.





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16. Other information

Abbreviations: ACGIH American Conference of Governmental Hygienics

CAS Chemical Abstracts Service HAPS Hazardous Air Pollutants

HMIS Hazardous Material Identifikation System IARC International Agency for Research on Cancer IDLH Immediate Dangerous to Life and Health

LEL Lower Explosion Limit NTP National Toxicology Program OEL Occupational Exposure Limit

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit
PPE Personal Protection Equipment

SARA Superfund Amendments and Reauthorization Act

STEL Short-Term Exposure Level (15 minutes) TWA Time-Weighted Average (8 hours)

UEL Upper Explosion Limit VOC Volatile Organic Compounds

WEEL Workplace Environmental Exposure Level

Canadian Abbreviations: DSL Domestic Substance List

NDSL Non-Domestic Substance List NPRI National Pollutant Release Inventory TDG Transport Dangerous Goods Directorate

WHMIS Workplace Hazardous Materials Information System

History

Date of issue: July 20, 2011

Version: A0

#### 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.