

## SAFETY DATA SHEET

Trade name:

**LEYBONOL LVO 108**

Date of issue: Feb 01, 2011

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

#### Product identifier

Trade name: LEYBONOL LVO 108

Product description: Mineral oil with additives

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

Uses: Vacuum pump oil, Lubricating fluid for vacuum pump

Order number:	Number	Package Size
	L10801	1 Liter
	L10805	5 Liter
	L10820	20 Liter
	L10899	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

Physicochemical Hazards: No specific risk of fire or explosion under normal conditions of use

Health effects: This product does not present a danger of intoxication

Environmental impact: Do not discharge this product into the environment. Unlikely to be harmful to aquatic organisms.

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### 3. Composition/information on ingredients

Main composition: Petroleum-derived severely refined mineral oil with additives in which the polycyclic aromatic hydrocarbons (PAHs) content, measured by IP346 is less than 2%.

Chemical name: Petroleum lubricating oil and additives

Appearance: Light yellow to tawny transparent liquid

**This product does not contain any hazardous ingredients at or above regulated thresholds.**

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### 4. First aid measures

<b>Skin Contact:</b>	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
<b>Eye Contact:</b>	Immediately flush eyes with a copious amount of water for at least 15 minutes. Get medical attention if irritation occurs.
<b>Inhalation:</b>	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
<b>Ingestion:</b>	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

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### 5. Firefighting measures

<b>Hazardous characteristics:</b>	In case of open flame and high heat, combustion can occur.
<b>Flash point (□):</b>	≥ 250°C
<b>Hazardous decomposition products:</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Extinguishing media:</b>	- suitable: Foam, carbon dioxide (CO <sub>2</sub> ), power, sand. - not recommended: Do not use water jets (stick jets) for extinguishing fire, as this may help the spread of flames.
<b>Protective measures for firefighters:</b>	Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.

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### 6. Accidental release measures

<b>Personal precaution:</b>	Immediately contact emergency personnel. Keep unnecessary personnel away. Once a large number of spill, use suitable protective equipment (splash goggles, full suit, boots and gloves).
<b>Environmental precautions:</b>	Cut off as much as possible leak source. Prevent entry into sewers, flood discharge trench so restrictive space.
<b>Clean-up methods:</b>	For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal. Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

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### 7. Handling and storage

<b>Handling:</b>	Prevent from impact and bump, clean thoroughly after filling.
<b>Storage:</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area. If open storage, rain shade measures are necessary.

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**Not Suitable:** Prolonged exposure to elevated temperature.

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### 8. Exposure controls/personal protection

**Occupational exposure limits:** This product does not have any assigned OELs.

**Control Measures:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory system:** None required; however, use of adequate ventilation is good industrial practice.

**Eyes protection:** Safety glasses with side shields, in case of splashing.

**Shin and body protection:** None required; however, use of protective clothing is good industrial practice.

**Hand protection:** None required; however, use of gloves is good industrial practice.

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### 9. Physical and chemical properties

#### Appearance

Color: light yellow to tawny  
Physical state: Liquid  
Odour: Oily

#### Important health, safety and environmental information

Flash point: (°C):  $\geq 250$  °C (Open cup) Cleveland  
Pour point:  $\leq -9$  °C  
Viscosity: 40°C, 104.2 mm<sup>2</sup>/s  
100°C, 12.3 mm<sup>2</sup>/s  
Relative density  
(at 20°C, density of water is 1): 0.88  
Saturated vapor pressure: 60°C,  $\leq 6.7 \times 10^{-4}$  Pa  
Partition coefficient (Log Pow): 20°C, Log Pow > 6 (data based on similar products)  
Temperature auto-inflammation: 250°C ~ 450°C (reference value)  
Solubility: Insoluble in water, soluble in organic solvent

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### 10. Stability and reactivity

**Stability:** The product is stable and at normal storage, handling and use temperatures.

**Materials to avoid:** Avoid contact with acid, alkali and strong oxidizers.

**Conditions to avoid:** Heat (temperature above flash point), sparks, ignition points, flames, static electricity.

**Hazardous polymerization:** Will not occur.

**Hazardous decomposition products:** Do not decompose under room temperature storage.

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### 11. Toxicological information

#### Acute toxicity

##### Eye contact:

Unlikely to cause more than transient stinging or redness if accidental eye contact occurs.

##### Shin contact:

Unlikely to cause harm to the skin on brief or occasional contact but prolonged or repeated exposure may lead to dermatitis.

##### Inhalation:

At normal ambient temperatures this product will be unlikely to present an inhalation hazard because of its low volatility. May be harmful by inhalation if exposure to vapour, mists or fumes resulting from thermal decomposition products occurs

##### Ingestion:

Unlikely to cause harm if accidentally swallowed in small doses, though larger quantities may cause nausea and diarrhea.

##### Chronic toxicity

##### Carcinogenicity:

This product is not regarded as carcinogenic.

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### 12. Ecological information

#### Persistence and Degradability:

Avoid seepage of this material into ground water, open water, the drainage or earth. This product is water soluble and only partially biodegradable.

#### Mobility:

- Air: there is slow loss by evaporation.
- Soil: Given its physical and chemical characteristics, the product generally shows little mobility in the ground.
- Water: The product is insoluble; it spreads on the surface of the water.

#### Bioaccumulative potential:

This product is not expected to bioaccumulate through food chains in the environment.

#### Environmental hazards:

Unlikely to be harmful to aquatic organisms.

#### Other ecological information:

Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

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### 13. Disposal considerations

#### Waste Class:

HW8 in «National catalogue of hazardous wastes»

#### Waste disposal:

Dispose of in a safe manner, in accordance with local regulation. Recommend dispose in incineration method.

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### 14. Transport information

Not classified as hazardous for transport in GB6944 - 2005 «Classification and code of dangerous goods»

#### Packing method:

Plastic bottle or metal drum (can).

#### Transport:

Prevent from impact and bump.

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### 15. Regulatory information

**China classification:** This product is not classified according to the GB13690 regulation.

#### Label Requirements

**Risk Phrases:** Not classified

**Safety Phrases:** Not classified

#### Other regulations

GB 6944-2005:	Classification and code of dangerous goods
GB/T 16483-2008:	Safety data sheet for chemical products - content and order of sections
GB 13690-2009:	Classification and labelling of hazardous chemicals in common use
GB 12268-2005:	List of Dangerous goods
GBZ 2.1-2007:	Occupational exposure limits for hazardous agents in the workplace, Chemical hazardous agents

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### 16. Other information

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#### Notice to reader

All reasonably practicable steps have been taken to ensure this data sheet and the health, safety and environmental information contained in it is accurate as of the date specified below. No warranty or representation, express or implied is made as to the accuracy or completeness of the data and information in this data sheet.

The data and advice given apply when the product is sold for the stated application or applications. You should not use the product other than for the stated application or applications without seeking advice from us. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. Manufacturer / Supplier shall not be responsible for any damage or injury resulting from use, other than the stated product use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material. Purchasers of the product for supply to a third party for use at work, have a duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. Employers have a duty to tell employees and others who may be affected of any hazards described in this sheet and of any precautions that should be taken.

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