

## MATERIAL SAFETY DATA SHEET

Trade name:

**LEYBONOL LVO 200**

Date of issue: Sep 22, 2009

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

#### Product identifier

Trade name:

LEYBONOL LVO 200

Product description:

Synthetic oil (ester oil with additives)

Order number:

Number	Package Size
L20001	1 Liter
L20002	2 Liter
L20005	5 Liter
L20020	20 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](http://www.oerlikon.com/leyboldvacuum)

E-Mail:

[info.vacuum.ex@oerlikon.com](mailto:info.vacuum.ex@oerlikon.com)

Emergency telephone number:

+49/ (0)700 24112112 (OLC)

### 2. Hazards identification

#### Emergency Overview

Form: liquid  
Colour: amber  
Odour: mild

May cause eye and skin irritation.

OSHA Hazards:

THIS MATERIAL IS NOT HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29CFR 1910.1200.

#### Potential Health Effects

Primary Routes of Entry:

Eye contact  
Skin contact

Aggravated Medical Condition:

Skin disorders

Inhalation:

May cause respiratory tract irritation.

Skin:

May cause skin irritation.  
Prolonged or repeated contact may dry skin and cause irritation.

Eyes:

May cause eye irritation.

Ingestion:

May be harmful if swallowed.  
Aspiration hazard if swallowed - can enter lungs and cause damage.

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Trade name:

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### 3. Composition/information on ingredients

**Note:** No ingredients are hazardous according to HCS criteria.

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### 4. First aid measures

#### First aid procedures

**Inhalation:** If inhaled move to fresh air.  
If not breathing, give artificial respiration.  
If breathing is difficult, give oxygen.  
In case of bluish discoloration (lips, ear lobes, fingernails), give oxygen as quickly as possible.  
If symptoms persist, call a physician.

**Skin contact:** In case of skin contact  
Wash off with soap and water.  
Remove contaminated clothing and shoes.  
Wash contaminated clothing before re-use.  
Get medical attention if irritation develops and persists.

**Eye contact:** In case of eye contact  
Rinse thoroughly with plenty of water, also under the eyelids.  
If eye irritation persists, consult a specialist.

**Ingestion:** If swallowed, DO NOT induce vomiting.  
Consult a physician if necessary.

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### 5. Firefighting measures

#### Flammable properties

**Flash point:** 260 °C (500 °F)  
Method: open cup

#### Lower explosion limit

Remarks: no data available

#### Upper explosion limit

Remarks: no data available

#### Protective equipment and precautions for firefighters

**Suitable extinguishing media:** Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Foam  
Alcohol-resistant foam  
Water mist

**Unsuitable extinguishing media:** Water

**Hazardous decomposition products:** Carbon oxides

**Further information:** In the event of fire, cool tanks with water spray.

#### Special protective equipment for fire-fighters:

In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

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Trade name:

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### Further information

**NFPA Classification:** Health hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 0

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### 6. Accidental release measures

**Personal precautions:** Use personal protective equipment.  
Ensure adequate ventilation.

**Environmental precautions:** Should not be released into the environment.  
Do not contaminate water.  
Do not flush into surface water or sanitary sewer system.

**Methods for containment /  
Methods for cleaning up:** Contain spillage, soak up with non-combustible absorbent material,  
(e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a  
container for disposal according to local / national regulations (see  
section 13).

**Additional advice:** Forms slippery/greasy layers with water.

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### 7. Handling and storage

#### Handling

**Advice on safe handling:** Handle in accordance with good industrial hygiene and safety  
practice.  
Keep container closed when not in use.  
Do not use pressure to empty drums.  
Ensure all equipment is electrically grounded before beginning  
transfer operations.

#### Storage

**Requirements for storage  
areas and containers:** Keep container tightly closed in a dry and well-ventilated place.

**Other data:** Stable under recommended storage conditions.

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### 8. Exposure controls/personal protection

#### Engineering measures

#### Personal protective equipment

**Eye protection:** Safety glasses with side-shields  
Tightly fitting safety goggles

**Hand protection:** Neoprene gloves

**Skin and body protection:** impervious clothing

**Respiratory protection:** Breathing apparatus needed only when aerosol or mist is formed.  
In the case of vapour formation use a respirator with an approved  
filter.

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**Hygiene measures:**

Avoid contact with skin, eyes and clothing.  
Provide adequate ventilation.  
Do not breathe dust or spray mist.

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### 9. Physical and chemical properties

#### Appearance

Form: liquid  
Colour: amber  
Odour: mild

#### Safety data

Flash point: 260 °C (500 °F)  
Method: open cup  
Ignition temperature: Remarks: not determined  
Lower explosion limit: no data available  
Upper explosion limit: no data available  
pH: not applicable  
Vapour pressure: no data available  
Specific Gravity: 0.92  
Water solubility: slightly soluble

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### 10. Stability and reactivity

**Conditions to avoid:** Heat.

**Materials to avoid:** Strong acids and strong bases

**Hazardous decomposition products:** Type: Hazardous decomposition products  
Carbon oxides

**Hazardous reactions:** polymerisation  
Hazardous polymerisation does not occur.

**Note:** Stable under recommended storage conditions.

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### 11. Toxicological information

No data is available on the product itself.

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### 12. Ecological information

No information on ecology is available.

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### 13. Disposal considerations

**Further information:** In accordance with local and national regulations.

**Contaminated packaging:** Do not burn, or use a cutting torch on, the empty drum.

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### 14. Transport information

**DOT:** Not dangerous goods  
**TDG:** Not dangerous goods  
**IATA:** Not dangerous goods  
**IMDG:** Not dangerous goods

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### 15. Regulatory information

**OSHA Hazards:** This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

**SARA 311/312 Hazards:** No SARA Hazards

#### The components of this product are reported in the following inventories

**TSCA** On TSCA Inventory  
**AICS** On the inventory, or in compliance with the inventory  
**DSL** All components of this product are on the Canadian DSL list.  
**ENCS** On the inventory, or in compliance with the inventory  
**KECI** On the inventory, or in compliance with the inventory  
**PICCS** On the inventory, or in compliance with the inventory  
**IECSC** On the inventory, or in compliance with the inventory  
**NZIoC** On the inventory, or in compliance with the inventory

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### 16. Other information

#### Further information

**NFPA Classification:** Health hazard: 1  
Fire Hazard: 1  
Reactivity Hazard: 0

**HMIS Classification:** Health hazard: 1  
Flammability: 1  
Reactivity: 0

#### History

**Date of issue:** September 22, 2009

**Version:** A0

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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