

MATERIAL SAFETY DATA SHEET

Trade name:

LEYBONOL LVO 210

Date of issue: March 31, 2011

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

Product identifier

Trade name:

LEYBONOL LVO 210

Product description:

Synthetic oil (ester oil with additives)

Order number:

Number	Package Size
L21001	1 Liter
L21005	5 Liter
L21020	20 Liter
L21099	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

Emergency Overview

Form: liquid
Colour: light yellow

Hazard Summary:

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.

Symptoms of Overexposure:

No information available.

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Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

3. Composition/information on ingredients

Hazardous components:	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.
Notes to physician	
Symptoms:	No information available.
Treatment:	No information available.

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5. Firefighting measures**Flammable properties**

Flash point: 482 °F (250 °C)
Method: Cleveland open cup ASTM D 92

Ignition temperature: Remarks: not determined

Lower explosion limit
Remarks: no data available

Upper explosion limit
Remarks: no data available

Fire fighting

Suitable extinguishing media: Carbon dioxide (CO2)
Dry powder
Foam
Alcohol-resistant foam
Water mist

Unsuitable extinguishing media: Water

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

Protective equipment and precautions for firefighters

Specific hazards during fire fighting: Burning produces noxious and toxic fumes.

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

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

Handling procedures:

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.

8. Exposure controls/personal protection

Exposure Guidelines

Contains no substances with occupational exposure limit values.

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.

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: light yellow

Safety data

Flash point: 482 °F (250 °C)
Method: Cleveland open cup ASTM D 92
Ignition temperature: Remarks: not determined
Lower explosion limit: Note: no data available
Upper explosion limit: Note: no data available
pH: Note: not applicable
Vapour pressure: Note: no data available
Density: 0.957 g/cm³
at 60.1 °F (15.6 °C)
Water solubility: Note: slightly soluble
Viscosity, kinematic: 98.5 mm²/s
at 104 °F (40 °C)

10. Stability and reactivity

Conditions to avoid: Remarks: Heat.
Materials to avoid: Remarks: Strong acids and strong bases
Hazardous decomposition products: Note: Carbon oxides
Hazardous reactions: Hazardous polymerisation does not occur.

11. Toxicological information

Acute inhalation toxicity: Remarks: Not classified due to lack of data.
Acute dermal toxicity: Remarks: Not classified due to lack of data.
Skin irritation: Remarks: Not classified due to lack of data.
Eye irritation: Remarks: Not classified due to lack of data.
Sensitisation: Remarks: Not classified due to lack of data.

Toxicology Assessment**CMR effects**

Carcinogenicity: Not classified due to lack of data.
Mutagenicity: Not classified due to lack of data.
Reproductive toxicity:
Not classified due to lack of data.

Further information: There is no data available for this product.

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12. Ecological information**Ecotoxicity effects****Toxicity to fish**

Remarks: no data available

Toxicity to daphnia and other aquatic invertebrates.

Remarks: no data available

Toxicity to algae

Remarks: no data available

Elimination information (persistence and degradability)**Bioaccumulation**

Remarks: no data available

Mobility

Remarks: no data available

Biodegradability:

Result: no data available

Further information on ecology**Ecotoxicology Assessment****Results of PBT assessment:**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

Additional ecological information:There is no data available for this product.

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.

14. Transport information**DOT:** Not dangerous goods**TDG:** Not dangerous goods**IATA:** Not dangerous goods**IMDG:** Not dangerous goods**RID:** Not dangerous goods

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

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CERCLA Reportable Quantity**SARA 302 Reportable Quantity****SARA 311/312 Hazards:** No SARA Hazards**EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW****SARA 302 Reportable Quantity****SARA 304 Components:** This material does not contain any components with a section 304 EHS RQ.**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.**The components of this product are reported in the following inventories**

US.TSCA:	On TSCA Inventory
DSL:	All components of this product are on the Canadian DSL list.
AICS:	On the inventory, or in compliance with the inventory
NZIoC:	Not in compliance with the inventory
ENCS:	Not 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:	Not in compliance with the inventory

16. Other information**Further information****HMIS Classification:** Health hazard: 0
Flammability: 1
Physical hazards: 0**NFPA Classification:** Health hazard: 0
Fire Hazard: 1
Reactivity Hazard: 0**History****Date of issue:** March 31, 2011**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.
