



SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

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)

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

Uses: Vacuum pump oil, Industrial

Recommended restrictions on use: For industrial use only.

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 GmbH

Bonner Str. 498 D-50968 Cologne

Phone +49-221-347-0 Fax +49-221-347-1250

Internet www.oerlikon.com/leyboldvacuum

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

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Chronic aquatic toxicity, Category 3: H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Dangerous for the environment: R52/53: Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements: H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard

Statements:

Precautionary statements: **Prevention:**

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an





SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

approved waste disposal plant.

Additional Labelling: EUH208 Contains: N-1-naphthylanilineMay produce an allergic

reaction.

2.3. Other hazards: No information available.

3. Composition/ information on ingredients

3.2. Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
N-1-naphthylaniline	90-30-2 201-983-0	Xn; R22 Xi; R43 N; R50/53	Acute Tox. 4; H302 Aquatic Acute 1; H400 Skin Sens. 1; H317 STOT RE 2; H373 Aquatic Chronic 1; H410	>= 0,25 - < 1

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

4. First aid measures

4.1. Description of first aid measures

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.

In case of 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.

In case of eye contact: In case of eye contact

Rinse thoroughly with plenty of water, also under the eyelids. If eye

irritation persists, consult a specialist.

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

necessary.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: No information available.





SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Carbon dioxide (CO2)

Dry powder

Foam

Alcohol-resistant foam

Water mist

Unsuitable extinguishing media: High volume water mist

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

Special protective equipment

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

personal protective equipment.

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

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions: Should not be released into the environment.

Do not contaminate water.

Do not flush into surface water or sanitary sewer system.

6.3. Methods and materials for containment and cleaning up

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).

6.4. Reference to other sections: Forms slippery/greasy layers with water.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Handle in accordance with good industrial hygiene and safety

practice.





SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010

Date of revision: Feb. 05, 2015

Keep container closed when not in use. Do not use pressure to empty drums.

Ensure all equipment is electrically grounded before beginning

transfer operations.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas

and containers: Keep container tightly closed in a dry and well-ventilated place.

Other data: Stable under recommended storage conditions.

7.3. Specific end uses

Specific use(s): Raw material for industry

8. Exposure controls/ personal protection

8.1. Control parameters:Contains no substances with occupational exposure limit values.

8.2. Exposure controls

Personal protective equipment

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.

Hand protection: Neoprene gloves

Eye protection: Safety glasses with side-shields

Tightly fitting safety goggles

Skin and body protection: Impervious clothing

Hygiene measures: Avoid contact with skin, eyes and clothing. Provide adequate

ventilation.

Do not breathe dust or spray mist.

Environmental exposure controls

General advice: Should not be released into the environment.

Do not contaminate water.

Do not flush into surface water or sanitary sewer system.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance: liquid
Colour: light yellow

Odour:No information available.Odour Threshold:No information available.

Flash point: 250 °C

Method: Cleveland open cup ASTM D 92

Ignition temperature:No information available.Lower explosion limit:No information available.

Upper explosion limit:No information available.



Oerlikon Leybold Vacuum GmbH Bonner Str. 498

D-50968 Cologne

leybonol

SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

Flammability (solid, gas): No information available.

Autoignition temperature: No information available.

H: Not applicable

No information available.

Vapour pressure: 0,957 g/cm3 **Density:** slightly soluble

Water solubility: No information available.

Partition coefficient: n- octanol/water: 98,5 mm2/s

at 40 °C

Solubility in other solvents:

Viscosity, kinematic: No information available.

Relative vapour density:

Evaporation rate: Note: No information available.

9.2. Other information: Oxidising potential

10. Stability and reactivity

10.1 Reactivity: No dangerous reaction known under conditions of normal use.

10.2 Chemical stability:No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: Hazardous polymerisation does not occur.

10.4 Conditions to avoid: Heat.

10.5 Incompatible materials

Materials to avoid: Strong acids and strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products: Carbon oxides

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity: Remarks: Not classified due to lack of data.

Acute oral toxicity

N-1-naphthylaniline: LD50: 1.625 mg/kg

Species: rat

Acute inhalation toxicity: Remarks: Not classified due to lack of data.

Acute dermal toxicity: Remarks: Not classified due to lack of data.

Acute dermal toxicity

N-1-naphthylaniline: LD50 Dermal: > 5.000 mg/kg

Species: rabbit

Skin corrosion/irritation





SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010

Date of revision: Feb. 05, 2015

Skin irritation: Remarks: Not classified due to lack of data.

Skin irritation

N-1-naphthylaniline: Species: rabbit

Result: No skin irritation Method: Draize Test

Serious eye damage/eye irritation

Eye irritation: Remarks: Not classified due to lack of data.

Eye irritation
N-1-naphthylaniline:
Species: rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Respiratory or skin sensitization

Sensitisation: Remarks: Not classified due to lack of data.

Sensitisation

N-1-naphthylaniline: Maximisation Test

Species: guinea pig

Classification: May cause sensitization by skin contact.

Patch Test Species: Human

Classification: May cause sensitization by skin contact.

Germ cell mutagenicity

N-1-naphthylaniline: Ames test

Result: negative

Chinese Hamster Ovary (CHO)

Result: negative

Genotoxicity in vivo

N-1-naphthylaniline: in vivo assay

Species: mouse Result: negative

Mutagenicity Assessment

Remarks: Not classified due to lack of data.

Carcinogenicity Assessment

Remarks: Not classified due to lack of data.

Reproductive toxicity Assessment

Remarks: Not classified due to lack of data.

Target Organ Systemic Toxicant - Single exposure

Remarks: Not classified due to lack of data.

Target Organ Systemic Toxicant - Repeated exposure

Remarks: Not classified due to lack of data.

Toxicology Assessment

Remarks: Not classified due to lack of data.

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





SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

12. Ecological information

Toxicity

Toxicity to fish: Remarks: no data available

Toxicity to fish

N-1-naphthylaniline: LC50: 0,44 mg/l

Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout) semi-static test Analytical monitoring: yes

Toxicity to daphnia and other

aquatic invertebrates: Remarks: no data available

Toxicity to daphnia and other

aquatic invertebrates.

N-1-naphthylaniline: EC50: 0,68 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) semi-static test Analytical monitoring: yes

Toxicity to algae: Remarks: no data available

Toxicity to daphnia and other aquatic

invertebrates. (Chronic toxicity)

N-1-naphthylaniline: NOEC: 0,02 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Analytical monitoring: yes

12.2 Persistence and degradability

Biodegradability: Remarks: no data available

Biodegradability

N-1-naphthylaniline: aerobic

Result: According to the results of tests of biodegradability this

product is not readily biodegradable.

0 %

Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Bioaccumulation: Remarks: no data available

Bioaccumulation

N-1-naphthylaniline: Species: Cyprinus carpio (Carp)

Exposure time: 56 d Temperature: 25 °C Concentration:0,1 mg/l

Bioconcentration factor (BCF): 427 - 2.730

12.4 Mobility in soil

Mobility: Remarks: no data available

12.5 Results of PBT and vPvB assessment:





SAFETY DATA SHEET

Trade name: **LEYBONOL LVO 210** Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

This substance is not considered to be persistent, bioaccumulating

and toxic (PBT).

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Other adverse effects

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

13. Disposal considerations

13.1 Waste treatment methods

Product: Dispose of in accordance with the European Directives on waste and

hazardous waste.

Dispose of wastes in an approved waste disposal facility.

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

14. Transport information

ADR: Not dangerous goods

IATA: Not dangerous goods

IMDG: Not dangerous goods

RID: Not dangerous goods

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of: Substances of Very High Concern for Authorisation

(Article 59).

This product does not contain substances of very high

concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Candidate List of Substances of

Very High Concern for Authorisation: This product does not contain substances of very high

concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

Major Accident Hazard Legislation: 96/82/EC Update: 2003

Directive 96/82/EC does not apply

Water contaminating class

(Germany): WGK 1 slightly water endangering self classification

Notification status

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





SAFETY DATA SHEET

Trade name: LEYBONOL LVO 210 Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

On the inventory, or in compliance with the inventory

IECSC: Not in compliance with the inventory

15.2 Chemical Safety Assessment: No information available.

16. Other information

PICCS:

Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed.

R43 May cause sensitization by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H373 May cause damage to organs through prolonged or repeated

exposure if swallowed.

H400 Very toxic to aquatic life.

H410
 H412
 Very toxic to aquatic life with long lasting effects.
 Harmful to aquatic life with long lasting effects.

Date of issue: January 08, 2010

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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.