

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 LVC	D 210
Product description:	Synthetic oil (est	er oil with additives)
Relevant identified uses of the substanc	e or mixture and	uses advised against
Uses:	Vacuum pump oi	il, Industrial
Recommended restrictions on use:	For industrial use	e only.
Order number:	Number L21000 L21001 L21002 L21005 L21020 L21099	Package Size 0,5 liter 1 liter 2 liter 5 liter 20 liter 208 liter
Details of the supplier of the safety data	sheet	
Supplier:	Leybold GmbH Bonner Strasse 4 D-50968 Cologne Phone Fax Internet	e

E-Mail:	documentation@leybold.com	
Emergency phone number:	+49/ (0)700 24112112 (OLC)	

2. Hazards identification

2.1 Classification of the substance or m	ixture	
Classification (REGULATION (EC) No 12	272/2008)	
Chronic aquatic toxicity, Category 3:	H412: Harmful to	o aquatic life with long lasting effects.
Classification (67/548/EEC, 1999/45/EC)		
Dangerous for the environment:		to aquatic organisms, may cause long-term adverse uatic environment.
2.2 Label elements		
Labelling (REGULATION (EC) No 1272/2	008)	
Hazard statements:	H412	Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements:		
Precautionary statements:	Prevention: P273 Disposal: P501	Avoid release to the environment. Dispose of contents/ container to an approved waste disposal plant.



LEYBONOL LVO 210

Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

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:	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 effect	ts, both acute and delayed
Symptoms:	No information available.
4.3 Indication of any immediate medical	attention and special treatment needed
Treatment:	No information available.



5. Firefighting measures

SAFETY DATA SHEET

LEYBONOL LVO 210

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 su	bstance 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 eq	uipment 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 containn	nent 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. 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, includi	ng any incompatibilities
Requirements for storage areas and containers:	Keep container tightly closed in a dry and well-ventilated place.



LEYBONOL LVO 210

Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

Other data:	Stable under recommended storage conditions.
7.3. Specific end uses	
Specific use(s):	Raw material for industry
8. Exposure controls/ personal protection	on
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: Colour: Odour: Odour Threshold: Flash point: Ignition temperature: Lower explosion limit:	liquid light yellow No information available. No information available. 250 °C Method: Cleveland open cup ASTM D 92 No information available. No information available.
Upper explosion limit: Flammability (solid, gas): Autoignition temperature: pH: Vapour pressure: Density: Water solubility:	No information available. No information available. No information available. Not applicable No information available. 0,957 g/cm3 slightly soluble No information available.
Partition coefficient: n- octanol/water: Solubility in other solvents: Viscosity, kinematic:	98,5 mm2/s at 40 °C No information available.

Ley	/b	O	C

LEYBONOL LVO 210

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 product	ts
Hazardous decomposition products:	Carbon oxides
11. Toxicological information	
11.1 Information on toxicological effect	s.
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	
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



LEYBONOL LVO 210

Respiratory or skin sensitization	
Sensitisation:	Remarks: Not classified due to lack of data.
Sensitisation 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.
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



LEYBONOL LVO 210

Toxicity to daphnia and other aquatic i 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
12.2 Piecesumulative notantial	Method. DECD 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:	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.
	Do not burn, or use a cutting torch on, the empty drum.



LEYBONOL LVO 210

Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

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: DSL: AICS: NZIoC: ENCS: KECI: PICCS: IECSC:	On TSCA Inventory All components of this product are on the Canadian DSL list. On the inventory, or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Not in compliance with the inventory	
	Not in compliance with the inventory	
15.2 Chemical Safety Assessment:	No information available.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under	No information available.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22	No information available. sections 2 and 3 Harmful if swallowed.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43 R50/53	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43 R50/53 R52/53 Full text of H-Statements referred to under H302	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic environment. der sections 2 and 3. Harmful if swallowed.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43 R50/53 R52/53 Full text of H-Statements referred to under H302 H317	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic environment. der sections 2 and 3. Harmful if swallowed. May cause an allergic skin reaction.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43 R50/53 R52/53 Full text of H-Statements referred to under H302	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic environment. der sections 2 and 3. Harmful if swallowed.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43 R50/53 R52/53 Full text of H-Statements referred to under H302 H317 H373 H400	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. der sections 2 and 3. Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure if swallowed. Very toxic to aquatic life.	
15.2 Chemical Safety Assessment: 16. Other information Full text of R-phrases referred to under R22 R43 R50/53 R52/53 Full text of H-Statements referred to under H302 H317 H373	No information available. sections 2 and 3 Harmful if swallowed. May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. der sections 2 and 3. Harmful if swallowed. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure if swallowed.	



LEYBONOL LVO 210

Date of issue: June 08, 2010 Date of revision: Feb. 05, 2015

History	
Date of issue:	January 08, 2010
Date of revision:	February 05, 2011
Version:	C0

| Indicates information that has changed from previously issued version.

Notice to reader

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The information contained therein is protected by copyright and must not be reproduced or amended without the express written approval of Leybold. This document may be passed on only to the extent required by law. Any dissemination of our safety datasheets (e.g. as a document for download from the Internet) beyond this legally required extent is not permitted without express written consent.