

LEYBONOL LVO 120



SAFETY DATA SHEET

Trade name:

Date of issue: July 28, 2009 Date of revision: May 16, 2012

1. Identification of the substance/ mixture and of the company				
Product identifier				
Trade name:	LEYBONOL LVO 120			
Product description:	Mineral oil with a	dditives		
Relevant identified uses of the substanc	e or mixture and	uses advised against		
Uses:	Vacuum pump oi	I, Compressor oil		
Order number:	Number L12000 L12001 L12002 L12005 L12020	Package Size 0,5 Liter 1 Liter 2 Liter 5 Liter 20 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			
E-Mail:	documentation.va	acuum@oerlikon.com		
Emergency phone number:	+49/ (0)700 24112112 (OLC)			
2. Hazards identification				
2.1. Classification of the substance or m	ixture			
REGULATION (EC) No 1272/2008	For the full text of Section 2.2.	f the H-Statements mentioned in this Section, see		
DIRECTIVE 67/548/EEC or 1999/45/EC	For the full text of the R-phrases mentioned in this Section, see Section 16			
		ixture is non-dangerous in accordance with 48/EEC with amendments and/or 1999/45/EC with		
Symbol(s)	Not Classified			
2.2. Label elements				
Labeled according to:	Not classified/No	labeling required		
R-phrase(s)	none			
	none			





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2.3. Other hazards

Physical-Chemical Properties	Contaminated surfaces will be extremely slippery.
Environmental properties	Should not be released into the environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture

Chemical Name	EC-No	REACH registration No:	CAS-No	Weight %	Classification (Dir.67/548)	Classification (Reg.1272/2008)
Zinc, bis[O,O-bis (2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)-	224-235-5	01-2119493635-27	4259-15-8	<0.45		Aquatic Chronic 2 (H411) Eye Dam. 1 (H318)
2,6-di-tert-butylphenol	204-884-0	no data available	128-39-2	-	N;R50-53	Aquatic Acute 1 (H400)Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346 $\,$

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

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.
Inhalation	Move to fresh air
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

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

Eye contact	Not classified.
Skin contact	Not classified.
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.





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4.3. Indication of immediate medical attention and special treatment needed, if necessary				
Notes to physician	Treat symptomatically			
5. FIRE-FIGHTING MEASURES				
5.1. Extinguishing media				
Suitable Extinguishing Media	Carbon dioxide (CO). ABC powder. Foam. Water spray or fog.			
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire			
5.2. Special hazards arising from the substance or mixture				
Special Hazard	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration.			
5.3. Advice for fire-fighters				
Special protective equipment for fire-fighters	Wear self-contained breathing apparatus and protective suit			
Other information	Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.			

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

General Information	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.
6.2. Environmental precautions	
General Information	Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.
6.3. Methods and materials for containing	nent and cleaning up
Methods for cleaning up	Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.
6.4. Reference to other sections	
Personal Protective Equipment	See Section 8 for more detail



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Waste treatment See section 13 7. HANDLING AND STORAGE For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin eyes and clothing. Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment. Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, were area doithing is recommended. Wash hands before breaks and immediately after handling the product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been containers (even if they are empty). Design the installations in orden ordinal containers. There were applied area. Keep container tightly closed. Keep preferably in the container (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for evantile). The cert if they are empty. Design the installations in order to avoid accidental emissions of product (due to seal breakage, for evantile). Protect from moisture. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION 8. 8.1. Control parameters See section 16 8.2. Exposure limits oil mist : 10mg/m3, for 15 minutes oil mist : 5mg/m3, for 8 hours Legend See section 16 8.2. Exposure controls Cocupational Exposure Controls Engineering Measures <th>Trade name:</th> <th>LEYBONOL LVO 120</th> <th>Date of issue: July 28, 2009 Date of revision: May 16, 2012</th>	Trade name:	LEYBONOL LVO 120	Date of issue: July 28, 2009 Date of revision: May 16, 2012
7.1. Precautions for safe handling Advice on safe handling When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin eyes and clothing. Prevention of fire and explosion Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment. Hygiene measures Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Containing the system set, solvents or fuels. Do not bry hands with rags that have been contaminated with product. Co not put product contaminated rags into workwear pockets. 7.2. Conditions for safe storage, including any incompatibilities Technical measures/Storage conditions Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulatic label on the new container. Do not remove the hazer labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) on to bac asing or electrical contacts. Protect from frost, heat and sunlight. Protect from moisture. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1. Control parameters 8. Exposure limits oil mist : 10mg/m3, for 15 minutes oil mist : 5mg/m3, for 8 hours Legend See section 16 </td <td>Waste treatment</td> <td>See section 13</td> <td></td>	Waste treatment	See section 13	
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limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.	Occupational Exposure Controls		
Personal Protective Equipment	Engineering Measures	limits. When working in confined spa ensure that there is a supply of air su	aces (tanks, containers, etc.),
	Personal Protective Equipment		





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General Information	If the product is used in mixtures, it the appropriate protective equipme recommendations apply to the proc	nt suppliers. These
Respiratory protection	None under normal use conditions. formation:. Respirator with combin (EN 141). The use of breathing ap the manufacturer's instructions and choices and uses.	In case of vapours and aerosol ation filter for vapour/particulate paratus must comply strictly with
Eye Protection	If splashes are likely to occur, wear shields.	:. Safety glasses with side-
Skin and body protection	Wear suitable protective clothing. I sleeved clothing.	Protective shoes or boots. Long
Hand Protection	Protective gloves: Fluorinated rubb the instructions regarding permeab are provided by the supplier of the consideration the specific local con- used, such as the danger of cuts, a mixed with other substances, and u EN 374, contact the supplier of the	ility and breakthrough time which gloves. Also take into ditions under which the product is brasion. If used in solution, or under conditions which differ from
Environmental exposure controls		
General Information	The product should not be allowed the soil	to enter drains, water courses or

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Color Physical State @20°C Odor	liquid	/ To amber	
<u>Property</u> pH Boiling point/boiling range Flash point	<u>Values</u> 232 °C 450 °F	Remarks Not applicable Not applicable	<u>Method</u> Cleveland Open Cup (COC) Cleveland Open Cup (COC).
Evaporation rate Flammability Limits in Air Vapor Pressure Vapor density Density Water solubility Solubility in other solvents logPow Autoignition temperature	879 kg/m ³	No information available No information available No information available No information available @ 15 °C Insoluble No information available No information available Not applicable	
Viscosity, kinematic	46 mm²/s 6.75 mm²/s	@ 40 °C @ 100 °C	ISO 3104 ISO 3104
Explosive properties Oxidizing Properties Possibility of hazardous reaction	ons	Not explosive Not applicable Not applicable	
9.2. Other information			



Trade name:

Oerlikon Leybold Vacuum GmbH Bonner Str. 498 D-50968 Cologne



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10. STABILITY AND REACTIVITY	
10.1. Reactivity	
General Information	No information available.
10.2. Chemical stability	
Stability	Stable under recommended storage conditions
10.3. Possibility of hazardous reactions	
Hazardous Reactions	None under normal processing
10.4. Conditions to Avoid	
Conditions to Avoid	Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.
10.5. Incompatible Materials	
Materials to Avoid	Strong oxidizing agents
10.6. Hazardous Decomposition Produc	cts
Hazardous Decomposition Products	None under normal use
11. TOXICOLOGICAL INFORMATION	
11.1. Information on toxicological effect	ts
Acute toxicity Local effects Product Info	ormation
Skin contact	Not classified.
Eye contact	Not classified.
Inhalation	Not classified.

Ingestion

respiratory system. Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Inhalation of vapors in high concentration may cause irritation of

Acute toxicity Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)-	= 3100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	
2,6-di-tert-butylphenol	> 5000 mg/kg (Rat)	= 10000 mg/kg (Rabbit)	

Sensitization

Sensitization

Not classified as a sensitizer.



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Trade name:	LEYBONOL LVO 120	Date of issue: July 28, 2009 Date of revision: May 16, 2012
Specific effects		
Carcinogenicity	This product is not classified carcinogenic.	
Mutagenicity Reproductive toxicity	This product is not classified as mutagenic. This product does not contain any known or suspected reproductive hazards	
Repeated Dose Toxicity		
Subchronic toxicity	No information available.	
Target Organ Effects (STOT)		
Target Organ Effects (STOT)	No information available.	
Other information		
Other adverse effects	Characteristic skin lesions (pimples) prolonged and repeated exposures (contaminated clothing).	

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Not classified.

Acute aquatic toxicity Product Information No information available.

Acute aquatic toxicity Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)-4259-15-8	EC50 (96h) 1.0 - 5.0 mg/L Pseudokirchneriella subcapitata	EC50 (48h) 1 - 1.5 mg/L Daphnia magna	LC50 (96h) 1.0-5.0 mg/L Pimephales promelas (static) LC50 (96h) 10.0-35.0 mg/L imephales promelas (semi-static)	
2,6-di-tert-butylphenol 128-39-2		EC50 (48h) = 0.45 mg/L Daphnia magna		

Chronic aquatic toxicity

Product Information	No information available.
Chronic aquatic toxicity	
Component Information	No information available.
Effects on terrestrial organisms	No information available.
12.2. Persistence and degradability	
General Information	No information available





SAFETY DATA SHEET Trade name: **LEYBONOL LVO 120** Date of issue: July 28, 2009 Date of revision: May 16, 2012 12.3. Bioaccumulative potential No information available **Product Information** logPow No information available **Chemical Name** LogPow Zinc, bis[O,O-bis(2-ethylhexyl) phosphorodithioato-S,S']-, (T-4)- -4259-15-8 3.6 12.4. Mobility in soil Soil Given its physical and chemical characteristics, the product generally shows low soil mobility. Air Loss by evaporation is limited. Water Insoluble. The product spreads on the surface of the water. 12.5. Results of PBT and vPvB assessment PBT and vPvB assessment No information available. 12.6. Other adverse effects **General Information** No information available. **13. DISPOSAL CONSIDERATIONS** 13.1. Waste treatment methods Waste from Residues / Unused Products Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. **Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal **EWC Waste Disposal No.** The following Waste Codes are only suggestions: 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was **14. TRANSPORT INFORMATION** ADR/RID Not regulated IMDG/IMO Not regulated ICAO/IATA Not regulated AND Not regulated

15. REGULATORY INFORMATION





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

European Union

International Inventories

EINECS/ TSCA	-
DSL	-
ENCS IECSC	-
KECL PICCS	-
AICS NZIoC	-

Legend

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment

Chemical Safety Assessment

No information available

16. OTHER INFORMATION

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

R41 - Risk of serious damage to eyes

R38 - Irritating to skin

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment **R50/53** - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

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

- H318 Causes serious eye damage
- H315 Causes skin irritation
- H400 Very toxic to aquatic life
- H410 Very toxic to aquatic life with long lasting effects
- H411 Toxic to aquatic life with long lasting effects

Abbreviations, acronyms

Legend Section 8

+ ** Sensitizer Hazard Designation



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MMutagen*Skin designationCCarcinogenRToxic to reproductionRevision Date:2012-05-16

Revision Date: Revision Note 2012-05-16 *** Indicates updated section

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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 regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned

End of the safety data sheet