



# SAFETY DATA SHEET

## Lanopro EP Grease 154-2

### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Product name</b>	Lanopro EP Grease 154-2
<b>In-house No.</b>	200 280 (400 gr), 200 281 (18 kg), 200282 (180 kg)
<b>Applications</b>	Lubricating grease
<b>Supplier</b>	Lanopro Production AS Smedveien 7 1344 Haslum, Norway Tel: +47 40 00 15 14 Fax: +47 21 54 73 43 <a href="http://www.lanopro.no/">http://www.lanopro.no/</a>
<b>Contact person</b>	Henrik Breddam (E-mail <a href="mailto:hb@lanopro.com">hb@lanopro.com</a> )
<b>Emergency telephone number</b>	112 / National Poisons Information Service (NPIS), phone 0844 892 0111. WEB: <a href="http://www.toxbase.org">http://www.toxbase.org</a>

### 2. HAZARDS IDENTIFICATION

Not regarded as a health, fire, explosion or environmental hazard under current legislation.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	EC No.	CAS No.	Content	Symbol	Classification
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	224-235-5	4259-15-8	<1,2 %	N	R-51/53
naphthenic acids, zinc salts	234-409-2	12001-85-3	<1,3 %	Xi ,N	R-36/38, R-51/53

Section 16 contains detailed classification phrases.

<b>Composition comments</b>	Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346. This product is a mineralbased Lithium/Calcium-complex grease with additives.
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### 4. FIRST AID MEASURES

<b>General</b>	Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air.
<b>Inhalation</b>	Provide rest, warmth and fresh air.
<b>Ingestion</b>	Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. To hospital if strong cough or vomiting occurs, or if larger quantity has been consumed.
<b>Skin</b>	Wash the skin immediately with soap and water.
<b>Eyes</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

## 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b>	Powder, foam or CO <sub>2</sub> . Do not use water jet as an extinguisher, as this will spread the fire.
<b>Special fire fighting procedures</b>	Containers close to fire should be removed immediately or cooled with water.
<b>Specific hazards</b>	Non-flammable.
<b>Hazardous combustion products</b>	Irritating gases/vapours/fumes.
<b>Protective measures in fire</b>	Firefighters exposed to combustion gases/decomposition products should use a respiratory protective device.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal protection</b>	Wear appropriate personal protective equipment - see Section 8. In case of spills, beware of slippery floors and surfaces. Avoid inhalation of vapours and aerosol spray.
<b>Environmental protection</b>	Contain spillages with sand, earth or any suitable adsorbent material. Prevent liquid entering sewers, basements and work pits.
<b>Spill cleanup methods</b>	Absorb in vermiculite, dry sand or earth and place into containers. Collect in containers and seal securely. See section 13.

## 7. HANDLING AND STORAGE

<b>Usage precautions</b>	Spillage causes slippery floors and tools. Avoid spilling, skin and eye contact. Avoid inhalation of vapours.
<b>Storage precautions</b>	Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Store at temperature below 50°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name	CAS no.	Reference	LT Exp 8 Hrs	ST Exp 15 Min	Date
Oil mist (mineraloil particles)		WEL.	1 mg/m <sup>3</sup>		

<b>Ingredient comments</b>	No exposure limits noted for ingredient(s).
<b>Process conditions</b>	Provide eyewash station.
<b>Ventilation</b>	No particular ventilation requirements.
<b>Respirators</b>	No specific recommendations.
<b>Protective gloves</b>	For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Nitrile. Neoprene. Time of breakthrough is not known, change gloves regularly.
<b>Eye protection</b>	Under normal conditions of use eye protection is not required.
<b>Other Protection</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Hygienic work practices</b>	Wash at the end of each work shift and before eating, smoking and using the toilet.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Grease.	
<b>Colour</b>	Brown to yellow.	
<b>Solubility description</b>	Insoluble in water.	
<b>Density (g/cm<sup>3</sup>)</b>	< 1000	<b>Temperature (°C)</b>
<b>Flash point (°C)</b>	> 150	<b>Method</b>

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
<b>Conditions to avoid</b>	No known hazardous reaction products. Avoid excessive heat, flames and other sources of ignition.
<b>Hazardous polymerisation</b>	Will not polymerise.
<b>Hazardous decomp. products</b>	No specific hazardous decomposition products noted.

## 11. TOXICOLOGICAL INFORMATION

<b>Sensitization</b>	No allergic reaction is known.
<b>Genotoxicity</b>	No known heritable or mutagenic effects.
<b>Carcinogenicity</b>	This substance has no evidence of carcinogenic properties.
<b>Reproduction toxicity</b>	No known hazardous effects on reproduction, fertility or to the unborn child.
<b>Inhalation</b>	Exposure to high concentrations of oil mist may irritate respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin</b>	Prolonged or repeated contact may cause irritation.
<b>Eyes</b>	Spray and vapour in the eyes may cause irritation and smarting.
<b>Route of entry</b>	Skin and/or eye contact. Inhalation.
<b>COMPONENT:</b>	<b>zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)</b>
<b>Toxic dose - LD50:</b>	>3000 mg/kg (oral rat)
<b>Toxic dose - LD50 (skin):</b>	>5000 mg/kg (skin rabbit)
<b>COMPONENT:</b>	<b>naphthenic acids, zinc salts</b>
<b>Toxic dose - LD50:</b>	2000 mg/kg (oral rat)
<b>Toxic dose - LD50 (skin):</b>	2000 mg/kg (skin rabbit)

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. German Water Hazard Class, WGK 1 (Slightly hazardous to water)
<b>Mobility</b>	The product is insoluble in water and will spread on the water surface. The product floats on water and if it comes into soil, it will be absorbed on earth particles and become immobile.
<b>Bioaccumulative potential</b>	Unknown.
<b>Persistence and degradability</b>	The product is not easily biologically degradable.
<b>Other adverse effects</b>	Results of PBT and vPvB assessment: No data available.
<b>COMPONENT:</b>	<b>zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)</b>
<b>LC 50, 96 Hrs, Fish mg/l:</b>	11 (Cyprinodon variegatus)
<b>EC 50, 48 Hrs, Daphnia, mg/l:</b>	1,5 (Daphnia magna)
<b>Bioaccumulative potential</b>	Log Pow: 8 BCF: 91,2
<b>COMPONENT:</b>	<b>naphthenic acids, zinc salts</b>
<b>Persistence and degradability</b>	BOD: 50 % (28 d)

## 13. DISPOSAL CONSIDERATIONS

<b>General/cleaning</b>	Product is not hazardous waste.
<b>Disposal methods</b>	Dispose of in accordance with Local Authority requirements.
<b>Waste class</b>	13 08 99* wastes not otherwise specified
<b>Contaminated packaging</b>	The product packaging must be disposed of in compliance with the country specific regulations.

## 14. TRANSPORT INFORMATION

**General** No dangerous goods (ADR/RID, IMDG, IATA/ICAO)

## 15. REGULATORY INFORMATION

**EU directives** 67/548/EEC, 1999/45/EC, 2001/58/EC, 2008/58/EC (REACH), 1272/2008/EC (30ATP).

## 16. OTHER INFORMATION

**Explanations to R-phrases in section 3** R-36/38 Irritating to eyes and skin.  
R-51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**\* Information revised since the previous version of the SDS**

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**Signature** R. E. Lunde

**Disclaimer** The information in this data sheet is considered to be correct according to present knowledge and experience, but there is no guarantee that it is complete. It is therefore in the user's interest to ensure that the information is sufficient for the area it is intended for.