



SAFETY DATA SHEET

Lanopro Hyd 21-46 A

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

Product name	Lanopro Hyd 21-46 A
In-house No.	200 213 (20 l), 200 214 (196 l)
Applications	Hydraulic oil
Supplier	Lanopro Production AS Smedveien 7 1344 Haslum, Norway Tel: +47 40 00 15 14 Fax: +47 21 54 73 43 http://www.lanopro.no/
Contact person	Henrik Breddam (E-mail hb@lanopro.com)
Emergency telephone number	National Poisons Information Service (NPIS), phone 0844 892 0111. WEB: http://www.toxbase.org

2. HAZARDS IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition comments	Composition (preparation) based on biodegradable esters.
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4. FIRST AID MEASURES

General	Remove victim immediately from source of exposure. General first aid, rest, warmth and fresh air.
Inhalation	No recommendation given.
Ingestion	Do not induce vomiting. Drink a few glasses of water or milk.
Skin	Remove contaminated clothing. Wash skin with soap and water.
Eyes	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

Extinguishing media	Powder, foam or CO2. Do not use water jet as an extinguisher, as this will spread the fire.
Special fire fighting procedures	Containers close to fire should be removed immediately or cooled with water.
Specific hazards	Non-flammable.
Hazardous combustion products	Irritating gases/vapours/fumes.
Protective measures in fire	Firefighters exposed to combustion gases/decomposition products should use a respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal protection	Wear appropriate personal protective equipment - see Section 8. Avoid contact with skin.
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Environmental protection	Dyke to prevent entering any sewer or waterway.
Spill cleanup methods	Absorb in vermiculite, dry sand or earth and place into containers. Collect in containers and seal securely. Waste treated in accordance with section 13

7. HANDLING AND STORAGE

Usage precautions	Wear appropriate personal protective equipment - see Section 8. Avoid skin contact.
Storage precautions	Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Store at temperature between -20 og 40°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Process conditions	Provide eyewash station.
Ventilation	Well ventilated area.
Respirators	Not required with adequate ventilation.
Protective gloves	For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Nitrile. Viton rubber (fluor rubber). Time of breakthrough is not known, change gloves regularly.
Eye protection	Goggles/face shield are recommended.
Other Protection	Wear appropriate clothing to prevent any possibility of skin contact.
Hygienic work practices	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Fluid.		
Colour	Yellow.		
Odour	Odourless or no characteristic odour.		
Physical data comments	Pour point: - 39 °C		
Solubility description	Insoluble in water.		
Density (g/cm³)	0,92	Temperature (°C)	20
Viscosity (interval)	46 cSt	Temperature (°C)	40
Flash point (°C)	> 200	Method	

10. STABILITY AND REACTIVITY

Stability	Stable under normal temperature conditions and recommended use.
Conditions to avoid	Avoid temperatures above 100°C.
Materials to avoid	Strong oxidising agents.
Hazardous decomp. products	No hazardous decomposition products are emitted at recommended use.

11. TOXICOLOGICAL INFORMATION

Toxic dose - LD 50:	> 2000 mg/kg (oral rat)
Toxic dose - LD 50 (skin):	> 2000 mg/kg (skin rat)
Genotoxicity	No known heritable or mutagenic effects.
Inhalation	No specific health warnings noted.
Ingestion	No specific health warnings noted.
Skin	No specific health warnings noted.
Eyes	No specific health warnings noted.
Route of entry	Skin and/or eye contact. Inhalation.

12. ECOLOGICAL INFORMATION

LC 50, 96 Hrs, Fish mg/l:	> 100
IC 50, 72 Hrs, Algae, mg/l:	> 1000
Ecotoxicity	Not regarded as dangerous to the environment. This does not, however, rule out the possibility that large or frequent smaller emissions of the product may be harmful to the environment.
Mobility	The product is insoluble in water and will spread on the water surface.
Bioaccumulative potential	Will not bio-accumulate.
Persistence and degradability	The product is easily biodegradable. >60% (28 days). OECD 301B.

13. DISPOSAL CONSIDERATIONS

General/cleaning	Hazardous waste.
Disposal methods	Dispose of in accordance with Local Authority requirements.
Waste class	13 01 12* readily biodegradable hydraulic oils The given EWC-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.
Contaminated packaging	The product packaging must be disposed of in the same manner as the contents.

14. TRANSPORT INFORMATION

General	No dangerous goods (ADR/RID, IMDG, IATA/ICAO)
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15. REGULATORY INFORMATION

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

* Information revised since the previous version of the SDS

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