

Nytro Lyra X

SAFETY DATA SHEET



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

Identification of the substance or mixture

Product name : Nytro Lyra X
Product type : Insulating oil
Supplier : Nynas AB
P.O. Box 10700
SE-121 29 Stockholm
+46 8 602 12 00
www.nynas.com/Naphthenics
Emergency telephone number : +44 (0)208 762 8322
Local Poison Center : 020-99 60 00 (Kemiakuten)
e-mail address of person responsible for this SDS : ProductHSE@nynas.com

2. HAZARDS IDENTIFICATION

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Classification : Not classified.

Classification according to Regulation (EC) 1272/2008 (CLP)

Classification : ASPIRATION HAZARD - Category 1

See section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Ingredient name	CAS number	%	EC number	Classification
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	50 - 100	265-156-6	Not classified.
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	0 - 50	276-738-4	Not classified.
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	0 - 50	265-158-7	Not classified.
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	0 - 50	265-157-1	Not classified.
2,6-di-tert-butyl-p-cresol	128-37-0	<0.4	204-881-4	N; R51/53 [1]

Annex I Nota L applies to the base oil(s) in this product. Nota 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.

If applicable :

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in section 8.

4. FIRST AID MEASURES

Inhalation	: Move exposed person to fresh air. Inhalation of vapours and/or mists might irritate respiratory tract. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. Do not induce vomiting. Get medical attention if symptoms occur.
Skin contact	: Remove contaminated clothing and shoes. Wash contaminated skin with soap and water. Get medical attention if symptoms occur.
Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 5 minutes, keeping eyelids open. Seek medical attention if irritation persists.

Protection of first-aiders

See section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Suitable	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Not suitable	: Do not use water jet.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Put on appropriate personal protective equipment (see section 8).
Environmental precautions	Prevent entry into sewers, water courses, basements or confined areas. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Small spill	Smaller spillage can be wiped up with paper cloths.
Large spill	Stop leak if without risk. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Handling	Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Do not ingest. Wash hands after handling. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. If handled at elevated temperatures or with high speed mechanical equipment, vapours or mists might be released and require a well ventilated workplace.
Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink.
Packaging materials	
Recommended	: Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values

Ingredient name	Occupational exposure limits
Oil mist	AFS (Sweden, 6/2005). STEL: 3 mg/m ³ 15 minute(s). Form: Mist and Fume TWA: 1 mg/m ³ 8 hour(s). Form: Mist and Fume

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control equipment should be used to avoid overheating.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practices.
Respiratory protection	If the product is heated under manual handling, use suitable mask with filter A1P2 or A2P2. Handling in automatic production lines, with exhaust or ventilation, will not require mask.
Hand protection	Wear oil-resistant protective gloves (e.g. nitril rubber). neoprene PVC
Eye protection	If potential exists for splashing, use goggles.
Skin protection	Wear protective clothing if there is a risk of skin contact. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

Physical state	: Liquid.
Colour	: Light yellow
Odour	: Odourless/Light petroleum.

Important health, safety and environmental information

Boiling point	: >250°C
Melting point / Pour point	: -60°C
Decomposition temperature	: >280 °C
Flash point	: Closed cup: >140°C [Pensky-Martens.]
Vapour pressure	: 160 Pa @ 100 °C
Relative density	: 0,87 g/cm ³ [15°C]
Solubility	: Insoluble in water. Soluble in most organic solvents.
Viscosity	: Kinematic (40°C): 0,094 cm ² /s (9,4 cSt)
DMSO extractible compounds for base oil substenc(s) according to IP346	: < 3%
Auto-ignition temperature	: >270°C

10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Conditions to avoid	: Oxidising agent.
Hazardous decomposition products	: This may result in the evolution of harmful and flammable gases or vapours.
Materials to avoid	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects

Acute toxicity	: Low acute toxicity.
Ingestion	: Ingestion may cause nausea and eventually vomiting and diarrhoea.
Inhalation	: Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.
Skin	: Repeated exposure may cause skin dryness or cracking.
Eyes	: Eye contact may cause redness and transient pain.

Potential chronic health effects

11. TOXICOLOGICAL INFORMATION

Chronic effects : Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity : Aquatic toxicity data on base oils indicate LC50 values of > 1000 mg/l, which is considered as low toxicity.

Mobility : Low mobility due to low water solubility and high viscosity.

Persistence/degradability : Inherently biodegradable.

Bioaccumulative potential : Models suggest that petroleum oils may bioaccumulate but the bioavailability limitations may reduce this potential.

Other adverse effects : Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

13. DISPOSAL CONSIDERATIONS

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

14. TRANSPORT INFORMATION

International transport regulations

This product is not regulated for carriage according to ADR/RID, IMDG, ICAO/IATA.

15. REGULATORY INFORMATION

EU regulations

Classification and labeling according to Regulation (EC) 1907/2006 (REACH)

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Risk phrases : This product is not classified according to EU legislation.

Classification and labeling according to Regulation (EC) 1272/2008 (CLP)

Classification and labeling have been determined according to Regulation (EC) 1272/2008 (including amendments) and take into account the intended product use.

Signal word : Danger

Hazard statements : May be fatal if swallowed and enters airways.

Precautionary statements

Hazard symbol or symbols :



Europe inventory : All components are listed or exempted.

TSCA 8(b) inventory : All components are listed or exempted.

16. OTHER INFORMATION

History

Date of printing : 2010-06-08.

Date of issue/ Date of revision : 2010-06-08.

Date of previous issue : No previous validation.

Version : 2

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.