SAFETY DATA SHEET



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name Nytro Libra
Product description Insulating oil
Product type Liquid.

1.2 Identified uses

Identified uses

Manufacture of substance- Industrial Distribution of substance- Industrial

Formulation and (re)packing of substances and mixtures- Industrial

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.

Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.

1.3 Details of the supplier of the safety data sheet

Nynas AB P.O. Box 10700 SE-121 29 Stockholm SWEDEN +46 8 602 12 00 www.nynas.com

e-mail address of person

ProductHSE@nynas.com

responsible for this SDS

1.4 Emergency telephone number National advisory body/Poison Centre

Telephone number +44 (0) 1235 239 670 Hours of operation 24 hour service

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition Mixture

Classification according to Directive 1999/45/EC [DPD]

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Not classified. 2.2 Label elements

Hazard symbol or symbols

Indication of danger

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

Safety phrases Not applicable.

2.3 Other hazards

Substance meets the criteria

No.

for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

Substance meets the criteria

for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII No.

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SECTION 3: Composition/information on ingredients

Substance/mixture

Mixture

			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01- 2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2	50 - 70	Not classified.	Asp. Tox. 1, H304	[2]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01- 2119487077-29 EC: 265-158-7 CAS: 64742-55-8 Index: 649-468-00-3	0 - 50	Not classified.	Asp. Tox. 1, H304	[2]
Distillates (petroleum), hydrotreated heavy paraffinic	REACH #: 01- 2119484627-25 EC: 265-157-1 CAS: 64742-54-7 Index: 649-467-00-8	0 - 50	Not classified.	Not classified.	[2]
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	REACH #: 01- 2119474878-16 EC: 276-737-9 CAS: 72623-86-0 Index: 649-482-00-X	0 - 50	Not classified.	Asp. Tox. 1, H304	-
Distillates (petroleum), solvent-refined light naphthenic	REACH #: 01- 2119480374-36 EC: 265-098-1 CAS: 64741-97-5 Index: 649-458-00-9	0 - 5	Not classified.	Asp. Tox. 1, H304	[2]
Distillates (petroleum), solvent-refined heavy naphthenic	REACH #: 01- 2119483621-38 EC: 265-097-6 CAS: 64741-96-4 Index: 649-457-00-3	0 - 5	Not classified.	Asp. Tox. 1, H304	[2]
				See Section 16 for the full text of the H statements declared above.	

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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing. If irritation, blurred vision or swelling occurs and

persists, obtain medical advice from a specialist.

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position

comfortable for breathing. If casualty is unconscious and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Immediately obtain specialist medical assessment and

treatment for the casualty.

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SECTION 4: First aid measures

Skin contact Remove contaminated clothing and shoes. Wash with soap and water. Handle with

care and dispose of in a safe manner. Seek medical attention if skin irritation,

swelling or redness develops and persists.

Accidental high pressure injection through the skin requires immediate medical

attention. Do not wait for symptoms to develop.

Ingestion Always assume that aspiration has occurred. Do not induce vomiting as there is high

risk of aspiration. Never give anything by mouth to an unconscious person. Seek professional medical attention or send the casualty to a hospital. Do not wait for

symptoms to develop.

Protection of first-aiders No action shall be taken involving any personal risk or without suitable training.

Before attempting to rescue casualties, isolate area from all potential sources of ignition including disconnecting electrical supply. Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined

spaces.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact Eye contact may cause redness and transient pain.

Inhalation Inhalation of vapours may cause headache, nausea, vomiting and an altered state of

consciousness.

Skin contact No known significant effects or critical hazards.

Ingestion If viscosity <20,5 cSt, risk of aspiration. Aspiration hazard if swallowed. Can enter

lungs and cause damage. Ingestion (swallowing) of this material may result in an

altered state of consciousness and loss of coordination.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Due to low viscosity there is a risk of aspiration if the product enters the lungs.

Ingestion (swallowing) of this material may result in an altered state of consciousness and loss of coordination. Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing

media

Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be

avoided as water destroys the foam.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance

or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This

substance will float and can be reignited on surface water.

Hazardous combustion

products

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H2S, SOx (sulfur oxides)

or sulfuric acid and unidentified organic and inorganic compounds.

5.3 Advice for firefighters

Special precautions for fire-

fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable

training.

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.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind/keep distance from source. In case of large spillages, alert occupants in downwind areas.

Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open air when vapours will be usually quickly dispersed, are dynamic situations, which will presumably limit the exposure to dangerous concentrations.

Note: recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or limit actions to be taken.

For emergency responders

Small spillages: normal antistatic working clothes are usually adequate.

Large spillages: full body suit of chemically resistant and thermal resistant material should be used. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Note: gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet, antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated.

Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (and when applicable for H2S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

6.2 Environmental precautions

Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents.

If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by an expert, and, if required, approved by local authorities.

6.3 Methods and materials for containment and cleaning up

Small spill Stop leak if without risk. Absorb spilled product with suitable non-combustible

materials.

Large spill

Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces,

cloud formation. Do not use water jet. When inside buildings or confined spaces ensure adequate ventilation. Transfer collected product and other contaminated

materials to suitable containers for recovery or safe disposal.

6.4 Reference to other

sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

General information

Obtain special instructions before use. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use and store only outdoors or in a well-ventilated area.

Avoid release to the environment.

7.1 Precautions for safe handling

Protective measures

Do not ingest. Avoid contact with skin. Avoid breathing fume/mist. Use personal protective equipment as required.

Prevent the risk of slipping. Take precautionary measures against static discharge. Avoid splash filling of bulk volumes when handling hot liquid product.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

Advice on general occupational hygiene

Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Change contaminated clothes at the end of working shift.

7.2 Conditions for safe storage, including any incompatibilities

Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

Store separately from oxidising agents.

Recommended materials for containers, or container linings use mild steel, stainless steel. Not suitable: Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.

Keep only in the original container or in a suitable container for this kind of product. Keep containers tightly closed and properly labelled. Protect from sunlight. Empty containers may contain harmful, flammable/combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values	
Oil mist	AFS 2005:17 (Sweden, 12/2010). TWA: 1 mg/m³ 8 hour(s). Form: mist and fume STEL: 3 mg/m³ 15 minute(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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SECTION 8: Exposure controls/personal protection

Derived effect levels

Product/ingredient name Type Exposure	Value Population Effects
---------------------------------------	--------------------------

Predicted effect concentrations

No PECs available.

8.2 Exposure controls

Appropriate engineering

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.

Individual protection measures

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.

Wash contaminated clothing before reuse.

Eye/face protection

Skin protection

If potential exists for splashing, use goggles.

Wear oil-resistant protective gloves (e.g. nitril rubber). PVC gloves. Neoprene Hand protection

aloves.

Wear protective clothing if there is a risk of skin contact. Change contaminated Body protection

clothes at the end of working shift.

Other skin protection Appropriate footwear and any additional skin protection measures should be

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

Respirator selection must be based on known or anticipated exposure levels, the Respiratory protection

hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a

risk assessment indicates this is necessary.

Environmental exposure

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some

cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state Liquid. Colour Light yellow

Odour Odourless/Light petroleum.

Odour threshold Not available. pΗ Not applicable.

Melting point/freezing point -51°C Initial boiling point and boiling

range

>250°C

Closed cup: >140°C [Pensky-Martens.] Flash point

Not available. Evaporation rate Flammability (solid, gas) Not available. Upper/lower flammability or Not available.

explosive limits

Vapour pressure 160 Pa @ 100 °C Vapour density Not available. Density 0,88 g/cm³ [15°C] Solubility(ies) Insoluble in water.

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SECTION 9: Physical and chemical properties

Partition coefficient: n-

octanol/water

Not available.

Auto-ignition temperature >270°C Decomposition temperature >280°C

Viscosity Kinematic (40°C): 0,096 cm²/s (9,6 cSt)

Not available. Explosive properties Not available. Oxidising properties

DMSO extractable compounds for base oil substance(s) according to

IP346

< 3%

SECTION 10: Stability and reactivity

10.1 Reactivity No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability Stable under normal conditions.

10.3 Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H2S, SOx (sulfur oxides)

or sulfuric acid and unidentified organic and inorganic compounds.

10.4 Conditions to avoid Oxidising agent.

10.5 Incompatible materials Keep away from extreme heat and oxidizing agents.

10.6 Hazardous

decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and inorganic

compounds.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Result	Species	Dose	Exposure
LC50 Inhalation Dusts and mists	Rat	>5,53 mg/l	4 hours
LD50 Dermal	Rabbit	>2000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LC50 Inhalation Dusts and mists	Rat	>5,53 mg/l	4 hours
LD50 Dermal	Rabbit	>2000 mg/kg	-
LD50 Oral	Rat	>5000	-
LC50 Inhalation Dusts and mists	Rat	>5,53 mg/l	4 hours
LD50 Dermal	Rabbit	>2000 mg/kg	-
LD50 Oral	Rat	>5000	-
LD50 Dermal	Rabbit	>5000	-
LD50 Oral	Rat	>5000	-
LC50 Inhalation Dusts and	Rat	>5,53 mg/l	4 hours
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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Nytro Libra

SECTION 11: Toxicological information

J				
naphthenic	mists			
	LD50 Dermal	Rabbit	>2000	-
			mg/kg	
	LD50 Oral	Rat	>5000	-
			mg/kg	
	LD50 Oral	Rat	>5000	_
			mg/kg	
			0 0	

Irritation/Corrosion

Skin Non-irritating to the skin.

Eyes Mild irritant.
Respiratory Not available.

<u>Sensitiser</u>

Skin Non-sensitiser to skin.

Carcinogenicity

Conclusion/Summary No carcinogenic effect.

Aspiration hazard

Potential acute health effects

Inhalation Inhalation of vapours may cause headache, nausea, vomiting and an altered state of

consciousness.

Ingestion If viscosity <20,5 cSt, risk of aspiration. Aspiration hazard if swallowed. Can enter

lungs and cause damage. Ingestion (swallowing) of this material may result in an

altered state of consciousness and loss of coordination.

Skin contact No known significant effects or critical hazards.

Eye contact Eye contact may cause redness and transient pain.

Potential chronic health effects

Chronic effects

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Fertility effects

No known significant effects or critical hazards.

Other information Not available.

Specific hazard

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Distillate (petroleum), hydrotreated light naphthenic	Acute IC50 >100 mg/l	Algae	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Distillate (petroleum), Hydrotreated Light Paraffinic	Acute IC50 >100 mg/l	Algae	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Distillates (petroleum), hydrotreated heavy paraffinic	Acute EC50 >100 mg/l	Fish	96 hours
	Acute IC50 >100 mg/l	Algae	48 hours
Distillates (petroleum), solvent-refined heavy naphthenic	Acute EC50 >100 mg/l	Fish	96 hours

Conclusion/Summary Aquatic toxicity data on base oils indicate LC50 values of > 100 mg/l, which is

considered as low toxicity.

12.2 Persistence and degradability

Conclusion/Summary Not readily biodegradable. Inherently biodegradable.

12.3 Bioaccumulative potential

Conclusion/Summary The product has a potential to bioaccumulate.

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SECTION 12: Ecological information

12.4 Mobility in soil

Mobility Insoluble in water.

12.5 Results of PBT and vPvB assessment

No.

12.6 Other adverse effects Spills may form a film on water surfaces causing physical damage to organisms.

Oxygen transfer could also be impaired.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal Where possible (e.g. in the absence of relevant contamination), recycling of used

substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorizations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organization, and/or

prescribe composition limits and methods for recovery or disposal.

Hazardous waste Within the present knowledge of the supplier, this product is not regarded as

hazardous waste, as defined by EU Directive 91/689/EEC.

Packaging

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

Special precautions

SECTION 14: Transport information

International transport regulations

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Not applicable.

Other EU regulations

Europe inventory All components are listed or exempted.

15.2 Chemical Safety

This product contains substances for which Chemical Safety Assessments are still

Assessment required.

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SECTION 16: Other information

Revision comments Not available.

Indicates information that has changed from previously issued version.

ATE = Acute Toxicity Estimate Abbreviations and acronyms

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Asp. Tox. 1, H304

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classific	cation		Justification
Asp. Tox. 1, H304			Calculation method
Full text of abbreviated H	H304	May be fatal if swallowed and enters airways.	

statements

Full text of classifications

Asp. Tox. 1, H304

ASPIRATION HAZARD - Category 1

[CLP/GHS]

Full text of abbreviated R

Not applicable.

phrases

Full text of classifications

Not applicable.

[DSD/DPD]

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Date of previous issue No previous validation.

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.

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