





Date of printing 2022-10-17
Date of issue/ Date of revision 2022-10-17
Date of previous issue 2021-05-31
Version 7

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

1.1 Product identifier

Product name MYTRO® LYRA X

UFI M7A0-T0TN-A003-A5CH

Product description Insulating oil
Product type Liquid.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses	
✓se in functional fluids - Industrial Use in functional fluids - Professional	

Uses advised against	Reason
This product must not be used in applications other than those recommended in Section 1, without first seeking the advice of the supplier.	-

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer Head office:

Nynas AB P.O. Box 10700 SE-121 29 Stockholm

SWEDEN

+46 8 602 12 00 (Office hours 8 am - 4.30 pm (CET))

www.nynas.com

e-mail address of person responsible for this SDS

ProductHSE@nynas.com

1.4 Emergency telephone number

Telephone number +44 (0) 1235 239 670

Hours of operation 24 hour service

National advisory body/Poison Centre

Telephone number 020 - 99 60 00 (Kemiakuten, 24h service)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition Mixture

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

Asp. Tox. 1, H304

Aquatic Chronic 3, H412

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Date of issue/Date of revision: 2022-10-17Date of previous issue: 2021-05-31Version: 71/20

SECTION 2: Hazards identification

Hazard pictograms



Signal word

Hazard statements H304 - May be fatal if swallowed and enters airways.

H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention P273 - Avoid release to the environment.

P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or Response

doctor. Do NOT induce vomiting.

Storage Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, Disposal

national and international regulations.

vistillate (petroleum), hydrotreated light naphthenic Hazardous ingredients

Distillate (petroleum), hydrotreated light paraffinic

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

2,6-di-tert-butyl-p-cresol

Supplemental label elements

Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

articles

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No.

1907/2006, Annex XIII

Other hazards which do not result in classification

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Stillate (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6	≥50	Asp. Tox. 1, H304	-	[1] [2]
Distillate (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≤50	Asp. Tox. 1, H304	-	[1] [2]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1	≤50	Asp. Tox. 1, H304	-	[1] [2]
Lubricating oils (petroleum), C15-30, hydrotreated	REACH #: 01-2119474878-16	≤3	Asp. Tox. 1, H304	-	[1] [2]

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version: 7

SECTION 3: Composition/information on ingredients

· ·		•			
neutral oil-based	EC: 276-737-9 CAS: 72623-86-0				
2,6-di-tert-butyl-p-cresol	REACH #: 01-2119555270-46 EC: 204-881-4 CAS: 128-37-0	<0,4	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

Regulation (EC) No. 1272/2008 [CLP] Annex VI 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.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

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. Get medical attention if adverse health effects persist or are

severe. Maintain an open airway.

Skin contact Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove

contaminated clothing and shoes. 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. Can enter

lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek professional medical attention or send the

casualty to a hospital. Do not wait for symptoms to develop.

Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Loosen tight clothing such as a collar, tie, belt or waistband.

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

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

Over-exposure signs/symptoms

Eye contact Slight irritant

Date of issue/Date of revision: 2022-10-17Date of previous issue: 2021-05-31Version: 73/20

SECTION 4: First aid measures

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory

irritation.

Skin contact Adverse symptoms may include the following:

irritation dryness cracking

Ingestion Adverse symptoms may include the following:

Nausea or vomiting.

diarrhoea

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. Treat

symptomatically.

Specific treatments Always assume that aspiration has occurred.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

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.

sulfulle 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing vapour or mist. 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

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 4/20

SECTION 6: Accidental release measures

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

Water polluting material. May be harmful to the environment if released in large quantities. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). 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 material 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, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal. Approach the release from upwind. Contaminated absorbent material may pose the same hazard as the

spilt product.

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.

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. Hazard of slipping on spilt product. Avoid release to the environment.

7.1 Precautions for safe handling

Date of issue/Date of revision: 2022-10-17Date of previous issue: 2021-05-31Version: 75/20

SECTION 7: Handling and storage

Protective measures

Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Prevent the risk of slipping. Take precautionary measures against static discharge. Avoid splash filling of bulk volumes when handling hot liquid product. Empty containers retain product residue and can be hazardous.

Avoid release to the environment.

Nota: See Section 8 for information on appropriate personal protective equipment. See section 13 for waste disposal information.

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. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, 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 container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. 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. Store locked up. Protect from sunlight.

7.3 Specific end use(s)

Recommendations Not available. Industrial sector specific solutions

Not available.

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
Distillate (petroleum), hydrotreated light naphthenic	Work environment authority Regulation 2018:1 (Sweden, 9/2021). [old used mineral oil] Absorbed through skin.
Distillate (petroleum), hydrotreated light	Work environment authority Regulation 2018:1 (Sweden, 9/2021). [oil mist, incl. oil fumes] TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume Work environment authority Regulation 2018:1 (Sweden,

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version: 7 6/20

Lubricating oils (petroleum), C20-50,

Lubricating oils (petroleum), C15-30,

hydrotreated neutral oil-based

hydrotreated neutral oil-based

SECTION 8: Exposure controls/personal protection

paraffinic

9/2021). [old used mineral oil] Absorbed through skin.

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [oil mist, incl. oil fumes]

TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [old used mineral oil] Absorbed through skin.

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [oil mist, incl. oil fumes]

TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [old used mineral oil] Absorbed through skin.

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [oil mist, incl. oil fumes]

TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume

[Air contaminant]

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [oil mist, incl. oil fumes]

TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume

Work environment authority Regulation 2018:1 (Sweden, 9/2021). [old used mineral oil] Absorbed through skin.

Oil mist

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
istillate (petroleum), hydrotreated	DNEL	Long term	5,58 mg/m ³	Workers	Local
light naphthenic Distillate (petroleum), hydrotreated	DNEL	Inhalation Long term	5,58 mg/m ³	Workers	Local
light paraffinic	DIVLE	Inhalation	0,00 mg/m	VVOIROIS	Local
Lubricating oils (petroleum), C20-50,	DNEL	Long term	5,58 mg/m ³	Workers	Local
hydrotreated neutral oil-based Lubricating oils (petroleum), C15-30,	DNEL	Inhalation Long term	5,58 mg/m³	Workers	Local
hydrotreated neutral oil-based	DIVLE	Inhalation	3,50 mg/m	VVOIRCIS	Local
2,6-di-tert-butyl-p-cresol	DNEL	Long term	5,8 mg/m ³	Workers	Systemic
	DMEL	Inhalation	0.2 ma/ka	Workers	Systemis
	DIVIEL	Long term Dermal	8,3 mg/kg bw/day	VVUIKEIS	Systemic

PNECs

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 7/20

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail	Value	Method Detail
2,6-di-tert-butyl-p-cresol	Soil	1,04 mg/kg wwt	Equilibrium Partitioning
	Sewage Treatment Plant	100 mg/l	Assessment Factors
	Sediment	1,29 mg/kg wwt	Equilibrium Partitioning
	Secondary Poisoning	16,7 mg/kg	Assessment Factors
		0,4 μg/l	Assessment Factors
	Fresh water	4 μg/l	Assessment Factors

PNEC Summary Hydrocarbon Block Method (Petrorisk)

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

Recommended: safety glasses with side-shields

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should

be worn at all times when handling chemical products if a risk assessment indicates

this is necessary. 4 - 8 hours (breakthrough time): nitrile rubber

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

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.

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

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Physical state Liquid.
Colour Light yellow

Odour Odourless/Light petroleum.

Melting point/freezing point -48°C

Initial boiling point and boiling

range

≥230°C (>446°F) [ASTM D 2887]

Flammability Not available.

Lower and upper explosion limit Not available.

Flash point Closed cup: >140°C (>284°F) [Pensky-Martens]

Auto-ignition temperature >200°C (>392°F)

Decomposition temperature >280°C

Date of issue/Date of revision: 2022-10-17Date of previous issue: 2021-05-31Version: 78/20

SECTION 9: Physical and chemical properties

pH Not applicable.

Viscosity Kinematic (40°C): 9,3 mm²/s (9,3 cSt)

Solubility in water Insoluble in water.

Partition coefficient: n-octanol/

water

Not applicable.

Vapour pressure (Calculated) <0,01 kPa (<0,075006 mm Hg)

Density 0,87 g/cm³ [15°C] Relative vapour density Not available.

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.

10.4 Conditions to avoid Keep away from extreme heat and oxidizing agents. Take precautionary measures

against static discharge.

10.5 Incompatible materials Oxidising agent.

10.6 Hazardous

decomposition 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.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure	Remarks
Distillate (petroleum), hydrotreated light naphthenic	LC50 Inhalation Dusts and mists	Rat	>5,53 mg/l	4 hours	EMBSI 1988 (similar material)
Партитотно	LD50 Dermal	Rabbit	>5000 mg/kg	-	API 1982 (similar material)
	LD50 Oral	Rat	>5000 mg/kg	-	API 1982(similar material)
Distillate (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	>5,53 mg/l	4 hours	EMBSI 1988 (similar material)
	LD50 Dermal	Rabbit	>5000 mg/kg	-	API 1982 (similar material)
	LD50 Oral	Rat	>5000 mg/kg	-	API 1982(similar material)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	LC50 Inhalation Dusts and mists	Rat - Male, Female	>5,53 mg/l	4 hours	EMBSI 1988 (similar material)
	LD50 Dermal	Rabbit	>5000 mg/kg	-	API 1982 (similar material)
	LD50 Oral	Rat	>5000 mg/kg	-	API 1982 (similar material)
Lubricating oils	LC50 Inhalation Dusts and	Rat - Male,	>5,53 mg/l	4 hours	EMBSI 1988

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 9/20

SECTION 11: Toxicological information

(petroleum), C15-30, hydrotreated neutral oil- based	mists	Female			(similar material)
	LD50 Dermal	Rabbit	>5000 mg/kg		API 1982 (similar material)
	LD50 Oral	Rat	>5000 mg/kg		API 1982(similar material)
2,6-di-tert-butyl-p-cresol	LD50 Dermal	Rat	>5000 mg/kg		Supplier's information
	LD50 Oral	Rat	>5000 mg/kg	-	Supplier's information

Conclusion/Summary

Based on available data, the classification criteria are not met.

Acute toxicity estimates

N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Observation	Remarks
Distillate (petroleum), hydrotreated light naphthenic	Eyes - Non-irritating to the eyes.	Rabbit	0 to 0,11	24 to 72 hours	API 1982(similar material)
·	Skin - Non-irritant to skin.	Rabbit	0 to 1	24 to 72 hours	API 1982(similar material)
Distillate (petroleum), hydrotreated light paraffinic	Eyes - Non-irritating to the eyes.	Rabbit	0 to 0,11	24 to 72 hours	API 1982(similar material)
	Skin - Non-irritant to skin.	Rabbit	0 to 1	24 to 72 hours	API 1982(similar material)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	Eyes - Non-irritating to the eyes.	Rabbit	0 to 0,11	24 to 72 hours	API 1982(similar material)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	Eyes - Non-irritating to the eyes.	Rabbit	0 to 0,11	24 to 72 hours	API 1982(similar material)
	Skin - Non-irritant to skin.	Rabbit	0 to 1	24 to 72 hours	API 1982 (similar material)
2,6-di-tert-butyl-p-cresol	Eyes - Cornea opacity	Rabbit	0	-	Supplier's information
	Eyes - Oedema of the conjunctivae	Rabbit	0,1	-	Supplier's information
	Eyes - Iris lesion	Rabbit	0	-	Supplier's information
	Eyes - Redness of the conjunctivae	Rabbit	0,5	-	Supplier's information

Skin
Eyes
Respiratory
Sensitisation

Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 10/20

SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result	Remarks
stillate (petroleum), hydrotreated light naphthenic	skin	Guinea pig	Not sensitizing	API 1982(similar material)
Distillate (petroleum), hydrotreated light paraffinic	skin	Guinea pig	Not sensitizing	API 1982(similar material)
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	skin	Guinea pig	Not sensitizing	API 1982(similar material)
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil- based	skin	Guinea pig	Not sensitizing	UBTL 1984j,k,l (similar material)
2,6-di-tert-butyl-p-cresol	skin	Human	Not sensitizing	Supplier's information

Skin Based on available data, the classification criteria are not met.
Respiratory Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test	Experiment	Result	Remarks
₹,6-di-tert-butyl-p-cresol	OECD 471 471 Bacterial Reverse Mutation Test	Experiment: In vitro	Negative	Supplier's information
		Subject: Bacteria		
	476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro	Negative	Supplier's information
		Subject: Mammalian- Animal		
	473 In vitro Mammalian Chromosomal Aberration Test	Experiment: In vitro	Negative	Supplier's information
		Subject: Mammalian- Animal		

Conclusion/Summary Based on available data, the classification criteria are not met.

Carcinogenicity

on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary Based on available data, the classification criteria are not met.

Teratogenicity

Conclusion/Summary Based on available data, the classification criteria are not met.

Aspiration hazard

Product/ingredient name	Result
Distillate (petroleum), hydrotreated light naphthenic Distillate (petroleum), hydrotreated light paraffinic Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1
Lubricating oils (petroleum), C15-30, hydrotreated neutral oilbased	ASPIRATION HAZARD - Category 1

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 11/20

SECTION 11: Toxicological information

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
istillate (petroleum), hydrotreated light naphthenic	Sub-chronic LOAEL Oral	Rat	125 mg/kg	-
	Sub-chronic NOAEL Dermal	Rat	>2000 mg/kg	-
	Sub-acute NOEL Inhalation Dusts and mists	Rat	220 mg/m³	6 hours; 5 days per week
Distillate (petroleum), hydrotreated light paraffinic	Sub-chronic LOAEL Oral	Rat	125 mg/kg	-
	Sub-chronic NOAEL Dermal	Rat	>2000 mg/kg	-
	Sub-acute NOEL Inhalation Dusts and mists	Rat	220 mg/m ³	6 hours; 5 days per week
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Sub-chronic LOAEL Oral	Rat	125 mg/kg	<u>-</u>
	Sub-chronic NOAEL Dermal	Rat	>2000 mg/kg	-
	Sub-acute NOEL Inhalation Dusts and mists	Rat	220 mg/m³	6 hours; 5 days per week
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	Sub-chronic LOAEL Oral	Rabbit	125 mg/kg	-
	Sub-chronic NOAEL Dermal	Rat	>2000 mg/kg	-
	Sub-chronic NOEL Inhalation Dusts and mists	Rat	220 mg/m³	6 hours; 5 days per week
2,6-di-tert-butyl-p-cresol	Sub-acute NOAEL Oral	Rat	25 mg/kg	28 days; 7 days per week

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Aspiration hazard

Aspiration means the entry of a liquid substance directly into the trachea and lower respiratory tract.

Aspiration of hydrocarbon substances can result in in severe acute effects such as chemical pneumonitis, varying degree of pulmonary injury or death.

This property relates to the potential for low viscosity material to spread quickly into the deep lung and cause severe pulmonary tissue damage.

Classification of a hydrocarbon substance for aspiration hazard is made on the basis of reliable human evidence or on the basis of physical properties.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
☑stillate (petroleum), hydrotreated light naphthenic	Acute EL50 >10000 mg/l	Daphnia	48 hours
	Acute LL50 >100 mg/l	Fish	96 hours
	Acute NOEL >100 mg/l	Algae	72 hours
	Chronic NOEL 10 mg/l Fresh water	Daphnia	21 days
Distillate (petroleum), hydrotreated light paraffinic	Acute EL50 >10000 mg/l	Daphnia	48 hours
	Acute LL50 >100 mg/l	Fish	96 hours
	Acute NOEL >100 mg/l	Algae	72 hours
	Chronic NOEL 10 mg/l Fresh water	Daphnia	21 days
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Acute LL50 >10000 mg/l	Aquatic invertebrates.	96 hours
	Acute LL50 >100 mg/l	Fish - Pimephales promelas	96 hours
	Acute NOEL >100 mg/l	Algae	72 hours
	Chronic NOEL 10 mg/l	Daphnia	21 days
Lubricating oils (petroleum), C15-30,	Acute EL50 >10000 mg/l	Daphnia	48 hours

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 12/20

SECTION 12: Ecological information

hydrotreated neutral oil-based			
	Acute LL50 >100 mg/l	Fish	96 hours
	Acute NOEL >100 mg/l	Algae	72 hours
	Chronic NOEL 10 mg/l Fresh water	Daphnia	21 days
2,6-di-tert-butyl-p-cresol	Acute EC50 0,61 mg/l	Daphnia - Magna	48 hours
	Acute IC50 >0,4 mg/l	Algae - Desmodesmus	72 hours
		Subspicatus	
	Acute LC50 >0,57 mg/l	Fish - Danio-rerio	96 hours
	Chronic NOEC 0,316 mg/l	Daphnia - Magna	21 days

Conclusion/Summary

Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
	OECD 301C 301C Ready Biodegradability - Modified MITI Test (I)	4,5 % - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
D istillate (petroleum),	-	-	Inherent
hydrotreated light naphthenic			
Distillate (petroleum),	-	-	Inherent
hydrotreated light paraffinic			
Lubricating oils (petroleum),	-	-	Inherent
C20-50, hydrotreated neutral			
oil-based			
Lubricating oils (petroleum),	-	-	Readily
C15-30, hydrotreated neutral			
oil-based			
2,6-di-tert-butyl-p-cresol	-	-	Not readily

Conclusion/Summary

Inherently biodegradable.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Distillate (petroleum),	2 to 6	<500	low
hydrotreated light naphthenic			
Distillate (petroleum),	2 to 6	<500	low
hydrotreated light paraffinic			
Lubricating oils (petroleum),	2 to 6	<500	low
C20-50, hydrotreated neutral			
oil-based			
Lubricating oils (petroleum),	2 to 6	<500	low
C15-30, hydrotreated neutral			
oil-based			
2,6-di-tert-butyl-p-cresol	5,1	_	high

Conclusion/Summary

The product has a potential to bioaccumulate.

12.4 Mobility in soil

Mobility High mobility in soil predicted, based on log Kow > 3.0.

12.5 Results of PBT and vPvB assessment

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 13/20

SECTION 12: Ecological information

12.7 Other adverse effects

Insoluble in water. 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

Yes.

European waste catalogue (EWC)

Waste code	Waste designation
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils

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.

SECTION 14: Transport information

International transport regulations

	ADR/RID	ADN	IMO/IMDG Classification	ICAO/IATA Classification
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.

14.6 Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments

MARPOL Annex 1 - Oils

Date of issue/Date of revision: 2022-10-17Date of previous issue: 2021-05-31Version: 714/20

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

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on

Not applicable.

the manufacture, placing on the market and use of

certain dangerous

substances, mixtures and

articles

Other EU regulations

Industrial emissions Not listed

(integrated pollution

prevention and control) - Air

Industrial emissions Not listed

(integrated pollution prevention and control) -

Water

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

National inventory

Australia All components are listed or exempted.
Canada All components are listed or exempted.
China All components are listed or exempted.

Eurasian Economic Union Russian Federation inventory: All components are listed or exempted.

Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand All components are listed or exempted.

Philippines All components are listed or exempted.

Republic of Korea All components are listed or exempted.

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version : 7 15/20

SECTION 15: Regulatory information

Taiwan All components are listed or exempted. Thailand All components are listed or exempted. Turkey All components are listed or exempted. **United States** All components are active or exempted. Viet Nam All components are listed or exempted.

15.2 Chemical safety

Chemical Safety Assessments for all substances in this product are either Complete

or Not applicable. assessment

SECTION 16: Other information

Not available. Revision comments

Indicates information that has changed from previously issued version.

Abbreviations and acronyms ATE = Acute Toxicity Estimate

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

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Asp. Tox. 1, H304	Calculation method
Aquatic Chronic 3, H412	Calculation method

Sweden

Full text of abbreviated H H304 May be fatal if swallowed and enters airways.

statements H400 Very toxic to aquatic life.

> H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/

GHS₁

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 Aquatic Acute 1 Aquatic Chronic 1

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category

Aquatic Chronic 3

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category

Asp. Tox. 1 ASPIRATION HAZARD - Category 1

Date of printing 2022-10-17 2022-10-17 Date of issue/ Date of revision 2021-05-31 Date of previous issue

Version 7

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.

The information provided herein does not in any way constitute a product warranty, product specification, agreement on quality or similar.

NYNAS®, NYFLEX®, NYTEX®, NYTRO®, NYBASE®, NYFROST™, NYFERT™, NYPAR™, NYPASS™, NYPRINT™, NYSPRAY™, NYHIB™, NYSWITCHO™, DISTRO™ and Nynas Logo are trademarks of Nynas.

Date of issue/Date of revision : 2022-10-17 Date of previous issue : 2021-05-31 Version: 7 16/20



Annex to the extended Safety Data Sheet (eSDS)



Section 1 - Title

Short title of the exposure

scenario

Use in functional fluids - Industrial

Identified use name: Use in functional fluids - Industrial List of use descriptors

Process Category: PROC01, PROC02, PROC08b, PROC09

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC07

Environmental contributing

scenarios

Use of functional fluid at industrial site - ERC07

General exposures (closed systems) - PROC02 Health Contributing scenarios

> Bulk transfers - PROC01, PROC02 Storage - PROC01, PROC02 Drum/batch transfers - PROC08b Filling of articles/equipment - PROC09 Remanufacture of reject articles - PROC09

Processes and activities covered by the exposure

scenario

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

transfers.

Section 2 - Exposure controls

2.1 Control of environmental exposure

Amounts used Annual site tonnage (tonnes/year) 10

Maximum daily site tonnage (kg/day) 5

Continuous release Frequency and duration of use

Emission days (days per year) 20

Other conditions affecting environmental exposure

Release fraction to air from process (initial release prior to RMM) 0.0001

Release fraction to wastewater from process (initial release prior to RMM) 1.0E-6

Release fraction to soil from process (initial release prior to RMM) 0.001

Technical on-site conditions and measures to reduce or limit required.

discharges, air emissions and

releases to soil

If discharging to domestic sewage treatment plant, no onsite wastewater treatment

Suitable technique(s) to limit releases to soil: Floors should be impervious, resistant

to liquids and easy to clean.

Risk management measures -

Treat air emissions. >= 70%

Risk management measures -Water

Treat on-site wastewater (prior to receiving water discharge) to provide the required

removal efficiency of 70.0 %.

Organisational measures to prevent/limit release from site

Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

Conditions and measures related to sewage treatment plant

Estimated substance removal from wastewater via domestic sewage treatment (%): 94.8

Total efficiency of removal from wastewater after onsite and offsite (domestic treatment plant) RMMs (%): 94.8

Maximum allowable site tonnage (Msafe) based on release following total wastewater

treatment removal (kg/day) 3500

Assumed on-site sewage treatment plant flow (m³/d) 2000

2.2 Control of worker exposure

General measures applicable to all activities

Concentration of substance in mixture or article

Covers percentage substance in the product up to 100%

Frequency and duration of

use

Covers daily exposures up to 8 hours

Date of issue/Date of revision 2022-04-04 17/20

Section 2 - Exposure controls

Other conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented Assumes use at not more than 20°C above ambient temperature. There are no routine anticipated exposures by ingestion related to any supported uses of the substance. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific risk.

Risk management measures (RMM)

Bulk transfers - PROC 1, PROC2, Filling of equipment from drums or containers - PROC 9 Handle substance within a closed system.

General exposures Closed system - PROC 2 Sample via a closed loop or other system to avoid exposure.

Remanufacture of reject articles - PROC 9

Drain or remove substance from equipment prior to break-in or maintenance.

Storage - PROC 1, PROC 2 Store substance within a closed system.

Section 3 - Exposure estimation and reference to its source

3.1 Environment

Exposure assessment (environment):

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

3.2 Workers

Exposure assessment (human):

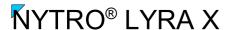
Exposure estimation and reference to its source

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Qualitative approach used to conclude safe use.

A DNEL (derived no effect levels) cannot be derived. There are no routine anticipated exposures by ingestion related to any supported uses of the substance. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific risk.

Date of issue/Date of revision

2022-04-04



Annex to the extended Safety Data Sheet (eSDS)



Section 1 - Title

Short title of the exposure

scenario

Use in functional fluids - Professional

Identified use name: Use in functional fluids - Professional List of use descriptors

Process Category: PROC01, PROC02, PROC08a, PROC20

Subsequent service life relevant for that use: No.

Environmental Release Category: ERC09a

Environmental contributing

scenarios

Widespread use of functional fluid (indoor) - ERC09a

Drum/batch transfers - PROC08a Health Contributing scenarios

Operation of equipment containing engine oils and similar - PROC20

Equipment cleaning and maintenance - PROC08a

Storage - PROC01, PROC02

General exposures (closed systems) - PROC01, PROC02

Processes and activities covered by the exposure scenario

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

transfers.

Section 2 - Exposure controls

2.1 Control of environmental exposure

Amounts used Annual site tonnage (tonnes/year) 0.005

Maximum daily site tonnage (kg/day) 0.014

Continuous release Frequency and duration of use

Emission days (days per year) 365

Other conditions affecting environmental exposure

Release fraction to air from wide dispersive use (regional only) 0.0005 Release fraction to wastewater from wide dispersive use 0.0005 Release fraction to soil from wide dispersive use (regional only) 0.001

Technical on-site conditions

required.

and measures to reduce or limit discharges, air emissions and

releases to soil

Risk management measures -

Water

Treat on-site wastewater (prior to receiving water discharge) to provide the required

If discharging to domestic sewage treatment plant, no onsite wastewater treatment

removal efficiency of 81.2%

Organisational measures to

Do not apply industrial sludge to natural soils. Sewage sludge should be incinerated, contained or reclaimed.

prevent/limit release from site

Estimated substance removal from wastewater via domestic sewage treatment (%): 94.8

Conditions and measures related to sewage treatment plant

Total efficiency of removal from wastewater after onsite and offsite (domestic

treatment plant) RMMs (%): 94.8

Maximum allowable site tonnage (Msafe) based on release following total wastewater

treatment removal (kg/day) 0.42

Assumed on-site sewage treatment plant flow (m³/d) 2000

2.2 Control of worker exposure

General measures applicable to all activities

Concentration of substance

in mixture or article

Covers percentage substance in the product up to 100 %.

Frequency and duration of

use

Covers daily exposures up to 8 hours

Date of issue/Date of revision 2022-04-04 19/20

Section 2 - Exposure controls

Other conditions affecting workers exposure

Assumes a good basic standard of occupational hygiene is implemented Assumes use at not more than 20°C above ambient temperature. There are no routine anticipated exposures by ingestion related to any supported uses of the substance. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific risk.

Risk management measures (RMM)

Drum/batch transfers Non-dedicated facility - PROC 8a Use drum pumps.

General exposures (closed systems) - PROC 1, PROC 2 Sample via a closed loop or other system to avoid exposure.

Operation of equipment containing engine oils and similar Closed system - PROC 20 Handle substance within a closed system.

Operation of equipment containing engine oils and similar Closed system Elevated temperature - PROC 20 Assumes process temperature up to 80.0 °C.

Equipment cleaning and maintenance - PROC 8a Drain down and flush system prior to equipment break-in or maintenance.

Storage - PROC 1, PROC 2 Store substance within a closed system.

Section 3 - Exposure estimation and reference to its source

3.1 Environment

Exposure assessment (environment):

The Hydrocarbon Block Method has been used to calculate environmental exposure with the Petrorisk model.

3.2 Workers

Exposure assessment (human):

Exposure estimation and reference to its source

The ECETOC TRA tool has been used to estimate workplace exposures unless otherwise indicated. Qualitative approach used to conclude safe use.

A DNEL (derived no effect levels) cannot be derived. There are no routine anticipated exposures by ingestion related to any supported uses of the substance. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk

management measures tailored to this specific risk.