# SAFETY DATA SHEET

# **Q8 Transformer Oil I**



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

1.1 Product identifier

**Product name** : Q8 Transformer Oil I : KQJ0-D0QR-6006-37KN UFI

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

**Material uses** : Electrical insulating oil

1.3 Details of the supplier of the safety data sheet

**Supplier** : Kuwait Petroleum Companies in the Benelux

> Company Office: Desguinlei 100 - 8, 2018 Antwerp, Belgium Contactaddress: Petroleumkaai 7, 2020 Antwerp, Belgium

Tel. +32 3 247 38 11, Fax +32 3 216 03 42

: Kuwait Petroleum Belgium N.V./S.A. **Manufacturer / Distributor** 

Petroleumkaai 7

B-2020 Antwerp

Belgium

Q8Oils Italia S.r.l. Via Volpedo 2

15050 Castellar Guidobono (AL)

e-mail address of person

responsible for this SDS : SDSinfo@Q8.com, communication preferably in English only. **PCN** Information contact : PCNinfo@Q8.com, communication preferably in English only.

1.4 Emergency telephone number

**Europe** : +44 (0) 1235 239 670 Global (English only) : +44 (0) 1865 407 333

**National advisory body/Poison Center** 

**Belgium** : Poison Centre: +32 (0)70 245 245

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#### 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]

ASPIRATION HAZARD H304 Category 1 AQUATIC HAZARD (LONG-TERM) H412 Category 3

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

Ingredients of unknown

toxicity

: None.

Ingredients of unknown None

ecotoxicity

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

**Hazard pictograms** 



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#### **SECTION 2: Hazards identification**

Signal word : Danger

**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.

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

doctor. Do NOT induce vomiting.

Storage : Not applicable.

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

national and international regulations.

**Hazardous ingredients**: Distillates (petroleum), hydrotreated light naphthenic

Distillates (petroleum), hydrotreated light paraffinic

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

Supplemental label

elements

: Not applicable.

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

articles

**Special packaging requirements** 

Containers to be fitted

with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

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.

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

# SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

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Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2	≥90	Asp. Tox. 1, H304	-	[1] [2]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≥25 - ≤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 Index: 649-483-00-5	≥25 - ≤50	Asp. Tox. 1, H304	-	[1] [2]

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## **SECTION 3: Composition/information on ingredients**

•		,	•		
2,6-di-tert-butyl-p-cresol	REACH #: 01-2119565113-46 01-2119480433-40 EC: 204-881-4 CAS: 128-37-0	<0.4		M [Acute] = 1 M [Chronic] = 1	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

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**

- [1] 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** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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.

**Skin contact**: Wash skin thoroughly with soap and water or use recognized skin cleanser.

Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out

mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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.

#### 4.2 Most important symptoms and effects, both acute and delayed

#### **Over-exposure signs/symptoms**

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

**Ingestion** : Adverse symptoms may include the following:

nausea or vomiting

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#### **SECTION 4: First aid measures**

#### 4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

## SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).

**Unsuitable extinguishing** 

media

: Do not use water jet.

#### 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 material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous combustion** products

Decomposition products may include the following materials: carbon dioxide

carbon monoxide sulfur oxides

#### 5.3 Advice for firefighters

Special protective actions 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

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

#### 6.3 Methods and materials for containment and cleaning up

**Small spill** 

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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#### SECTION 6: Accidental release measures

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

# 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).

#### 7.1 Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

## **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
vistillates (petroleum), hydrotreated light naphthenic	Limit values (Belgium, 5/2021) [Olie] TWA 8 hours: 5 mg/m³. Form: mist. STEL 15 minutes: 10 mg/m³. Form: mist. EU OEL (Europe)
Distillates (petroleum), hydrotreated light paraffinic	TWA: 5 mg/m³ (oil Mist).  Limit values (Belgium, 5/2021) [Olie]  TWA 8 hours: 5 mg/m³. Form: mist.  STEL 15 minutes: 10 mg/m³. Form: mist.  EU OEL (Europe)

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## **SECTION 8: Exposure controls/personal protection**

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

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

TWA 8 hours: 5 mg/m³. STEL 15 minutes: 10 mg/m³.

Limit values (Belgium, 5/2021) [Olie] TWA 8 hours: 5 mg/m³. Form: mist. STEL 15 minutes: 10 mg/m³. Form: mist.

Limit values (Belgium, 5/2021)

TWA 8 hours: 2 mg/m<sup>3</sup>. Form: vapour and aerosol.

#### **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	<b>Population</b>	Effects
Sistillates (petroleum), hydrotreated light naphthenic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Distillates (petroleum), hydrotreated light paraffinic	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	5.58 mg/m³	Workers	Local
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	DNEL	Long term Oral	0.74 mg/ kg bw/day	General population	Systemic
,	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Inhalation	5.58 mg/m <sup>3</sup>	Workers	Local
2,6-di-tert-butyl-p-cresol	DNEL	Long term Oral	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.435 mg/ m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	1.76 mg/m <sup>3</sup>	Workers	Systemic

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## SECTION 8: Exposure controls/personal protection

Inhalation

#### **PNECs**

No PNECs available.

#### 8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Individual protection measures**

**Hygiene measures** 

: Do not ingest. If swallowed then seek immediate medical assistance.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

### **Skin protection**

**Hand protection** 

Ehemical-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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm. Provide employee with skin care programmes.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C: AX1; Hot material: A1P2. Gas and combination filter cartridges should comply with the European standard EN14387.

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

**Appearance** 

Physical state : Liquid. [Oily liquid.]

Appearance : Clear

Color : Yellow [Light]

Odor threshold : Not available.

Melting point/freezing point

Boiling point or initial boiling

point and boiling range

: ✓-40°C (<-40°F) [ASTM D 97] : >280°C (>536°F) [ASTM D 2887]

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## SECTION 9: Physical and chemical properties

**Flammability** Lower and upper explosion

limit

: Not applicable. : Not available.

Closed cup: >135°C (>275°F) [ASTM D93.] Flash point

**Auto-ignition temperature** : >250°C (>482°F)

: >280°C **Decomposition temperature** 

pН Not applicable.

**Viscosity** : Kinematic (40°C (104°F)): 9.5 mm<sup>2</sup>/s (9.5 cSt) [ASTM D 445]

Solubility

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not available.

Partition coefficient n-octanol/

water (log Pow)

: Not applicable.

: <0.0001 kPa (<0.00075006 mm Hg) Vapor pressure : 0.87 to 0.88 g/cm<sup>3</sup> [15°C (59°F)] **Density** 

Relative vapor density : Not available. **Explosive properties** : Not applicable. **Oxidizing properties** Not applicable.

**Particle characteristics** 

Median particle size : Not applicable.

#### 9.2 Other information

9.2.1 Information with regard to physical hazard classes

**Explosive properties** : Not applicable. **Oxidizing properties** : Not applicable.

9.2.2 Other safety characteristics

Not applicable.

## 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 : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : Reactive or incompatible with the following materials:

Strong oxidizing materials

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

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## **SECTION 11: Toxicological information**

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

: Not available.

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light naphthenic	LC50 Inhalation Dusts and mists	Rat	2180 mg/m³	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
Distillates (petroleum), hydrotreated light paraffinic	LC50 Inhalation Dusts and mists	Rat	3900 mg/m³	4 hours
	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
2,6-di-tert-butyl-p-cresol	LD50 Oral	Rat	890 mg/kg	-

**Conclusion/Summary** 

**Acute toxicity estimates** 

N/A

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
vistillates (petroleum), hydrotreated light paraffinic	Eyes - Iris lesion	Rabbit	0	48 hours	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.33	48 hours	72 hours
	Skin - Edema	Rabbit	0	72 hours	7 days
	Skin - Erythema/Eschar	Rabbit	0.17	72 hours	7 days
2,6-di-tert-butyl-p-cresol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Skin - Mild irritant	Human	-	48 hours 500	-
	Skin - Moderate irritant	Rabbit	-	48 hours 500	-

**Conclusion/Summary**: Not available.

#### **Respiratory or skin sensitization**

Product/ingredient name	Route of exposure	Species	Result
<b>D</b> istillates (petroleum), hydrotreated light paraffinic	skin	Guinea pig	Not sensitizing

**Conclusion/Summary**: Not available.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

**Conclusion/Summary**: Not available.

### **Carcinogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
istillates (petroleum), hydrotreated light paraffinic	Negative - Dermal - TC	Mouse - Female	-	78 weeks

**Conclusion/Summary**: Not available.

**Reproductive toxicity** 

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## **SECTION 11: Toxicological information**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
istillates (petroleum), hydrotreated light paraffinic	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-

Conclusion/Summary : Not available.

**Teratogenicity** 

Product/ingredient name	Result	Species	Dose	Exposure
istillates (petroleum), hydrotreated light paraffinic	Negative - Dermal	Rat	2000 mg/kg	7 days per week

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Product/ingredient name	Result
Distillates (petroleum), hydrotreated light naphthenic Distillates (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

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** : May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : No specific data.

Inhalation : No specific data.

**Skin contact**: Adverse symptoms may include the following:

irritation dryness cracking

**Ingestion**: Adverse symptoms may include the following:

nausea or vomiting

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

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## **SECTION 11: Toxicological information**

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
☑istillates (petroleum), hydrotreated light paraffinic	Sub-acute LOAEL Oral	Rat - Male	125 mg/kg	13 weeks; 5 hours per day
	Sub-chronic NOAEL Oral	Rat - Male, Female	≥2000 mg/kg	13 weeks; 5 days per week
	Sub-acute NOAEL Inhalation Dusts and mists	Rat - Male	>980 mg/m³	4 weeks; 5 days per week

Conclusion/Summary

: Not available.

General

: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/

or dermatitis.

Carcinogenicity
Mutagenicity
Reproductive toxicity

No known significant effects or critical hazards.No known significant effects or critical hazards.No known significant effects or critical hazards.

· ·

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2,6-di-tert-butyl-p-cresol	, ,	Daphnia - <i>Daphnia pulex</i> - Neonate	48 hours

**Conclusion/Summary**: Not available.

### 12.2 Persistence and degradability

**Conclusion/Summary**: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
☑istillates (petroleum), hydrotreated light paraffinic	-	-	Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
☑istillates (petroleum), hydrotreated light paraffinic	>3	-	Low
Lubricating oils (petroleum), C20-50, hydrotreated	>6	-	High
neutral oil-based 2,6-di-tert-butyl-p-cresol	5.1	330 to 1800	High

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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

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## **SECTION 12: Ecological information**

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **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** 

: The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**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 minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** 

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
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.

# user

14.6 Special precautions for : 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.

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## **SECTION 14: Transport information**

14.7 Maritime transport in

bulk according to IMO

instruments

: Not available.

### **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 authorization** 

**Annex XIV** 

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
☑8 Transformer Oil I	≥90	3

Labeling : Not applicable.

Other EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

Explosive precursors : Mot applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants (1021/2019/EU)

Not listed.

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

**National regulations** 

**Germany** 

Hazard class for water : 1

(WGK)

**Switzerland** 

VOC content : Exempt.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

**Stockholm Convention on Persistent Organic Pollutants** 

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## **SECTION 15: Regulatory information**

Not listed

#### **Rotterdam Convention on Prior Informed Consent (PIC)**

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

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

15.2 Chemical Safety Assessment  Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: MDN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road

ASTM = American Society for Testing and Materials

ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service

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

1272/2008]

DIN = German Institute for Standardization
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EC = European Commission

EC50 = Half maximal effective concentration

EN = European Standard (Norm)

EUH statement = CLP-specific Hazard statement

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IC50 = Half maximal inhibitory concentration IMDG = International Maritime Dangerous Goods IMO = International Maritime Organisation

ISO = International Organization for Standardization

LC50 = Median lethal concentration

LD50 = Median lethal dose

LOAEL / LOAEC = Lowest Observed Adverse Effect Level / Concentration MARPOL = International Convention for the Prevention of Pollution From Ships,

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#### **SECTION 16: Other information**

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration

NOEL / NOEC = No Observed Effect Level / Concentration

OECD = Organisation for Economic Co-operation and Development

OEL = Occupational Exposure Limit

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods

by Rail

SDS = Safety Data Sheet

SVHC = Substances of Very High Concern

STEL = Short Term Exposure Limit

TLV = Threshold Limit Value TWA = Time Weighted Average

UFI = Unique Formula Identifier

**UN = United Nations** 

VOC = Volatile Organic Compound

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

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

#### Full text of abbreviated H statements

H304 H400	May be fatal if swallowed and enters airways.  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/GHS]

Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1

**Training advice** : Ensure operatives are trained to minimise exposures.

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#### **SECTION 16: Other information**

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

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