SAFETY DATA SHEET

Q8 LHM+



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

1.1 Product identifier

Product name : Q8 LHM+

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

Material uses : Lubricating oil for hydraulic equipment

1.3 Details of the supplier of the safety data sheet

Supplier: Kuwait Petroleum Companies in the Benelux

Company Office: Brusselstraat 59, 2018 Antwerp, Belgium Contactaddress: Petroleumkaai 7, 2020 Antwerp, Belgium

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

Manufacturer / Distributor : Kuwait Petroleum Belgium N.V./S.A. / Q8Oils Italia S.r.l.

Petroleumkaai 7 Via Volpedo 2

B-2020 Antwerp 15050 Castellar Guidobono (AL)

Belgium Italy

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

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

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 :



Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 1/18

Q8 LHM+

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

General: P103 - Read label before use.

P102 - Keep out of reach of children.

P101 - If medical advice is needed, have product container or label at hand.

Prevention: P273 - Avoid release to the environment.

Response : P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage : P405 - Store locked up.

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

national and international regulations.

Hazardous ingredients : Distillates (petroleum), hydrotreated light paraffinic

Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Gas oils (petroleum), hydrodesulfurized

Supplemental label

elements

: 🖊 Contains (4-nonylphenoxy)acetic acid. May produce an allergic reaction.

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

articles

Detergents - Regulation (EC) No 648/2004

: Not applicable.

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

with child-resistant

fastenings

: Yes, applicable.

Tactile warning of danger : Yes, 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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8	≥50 - ≤75	Asp. Tox. 1, H304	-	[1] [2]
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	REACH #: 01-2119826592-36 EC: 934-954-2	≥50 - ≤75	Asp. Tox. 1, H304	-	[1] [2]
Gas oils (petroleum), hydrodesulfurized	REACH #: 01-2119471311-49	≤10	Acute Tox. 4, H332 Skin Irrit. 2, H315	ATE [Inhalation (gases)] = 4500	[1]

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 2/18

SECTION 3: Composition/information on ingredients

EC: 265-182-8 CAS: 64742-79-6 Index: 649-222-00-5		Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ppm	
REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2	≤1	Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
REACH #: 01-2119531335-46 EC: 215-548-8 CAS: 1330-78-5	≤1	Repr. 2, H361 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 10 M [Chronic] = 100	[1]
REACH #: 01-2119982392-31 EC: 221-486-2 CAS: 3115-49-9	≤1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
REACH #: 01-2119513207-49 EC: 310-154-3 CAS: 121158-58-5 Index: 604-092-00-9	≤0.1	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 10 M [Chronic] = 10	[1] [3]
REACH #: 01-2119561346-37 EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2	≤0.1	Flam. Sol. 2, H228 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared	ATE [Oral] = 490 mg/kg M [Acute] = 1 M [Chronic] = 1	[1] [2]
	CAS: 64742-79-6 Index: 649-222-00-5 REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2 REACH #: 01-2119531335-46 EC: 215-548-8 CAS: 1330-78-5 REACH #: 01-2119982392-31 EC: 221-486-2 CAS: 3115-49-9 REACH #: 01-2119513207-49 EC: 310-154-3 CAS: 121158-58-5 Index: 604-092-00-9 REACH #: 01-2119561346-37 EC: 202-049-5 CAS: 91-20-3	CAS: 64742-79-6 Index: 649-222-00-5 REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2 REACH #: 01-2119531335-46 EC: 215-548-8 CAS: 1330-78-5 REACH #: 01-2119982392-31 EC: 221-486-2 CAS: 3115-49-9 REACH #: 01-2119513207-49 EC: 310-154-3 CAS: 121158-58-5 Index: 604-092-00-9 REACH #: 01-2119561346-37 EC: 202-049-5 CAS: 91-20-3	CAS: 64742-79-6 Index: 649-222-00-5 REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2 REACH #: 01-2119531335-46 EC: 215-548-8 CAS: 1330-78-5 REACH #: 01-2119982392-31 EC: 221-486-2 CAS: 3115-49-9 REACH #: 01-2119513207-49 EC: 310-154-3 CAS: 121158-58-5 Index: 604-092-00-9 REACH #: 01-2119561346-37 EC: 202-049-5 CAS: 91-20-3 Index: 601-052-00-2 Aquatic Chronic 2, H411 Skin Irrit. 2, H315 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H	CAS: 64742-79-6 Index: 649-222-00-5 REACH #: 01-2119490822-33 EC: 204-884-0 CAS: 128-39-2 REACH #: 01-2119531335-46 EC: 215-548-8 CAS: 1330-78-5 EC: 221-486-2 CAS: 3115-49-9 EC: 310-154-3 CAS: 121158-58-5 Index: 604-092-00-9 Index: 601-052-00-2 EAS: 91-20-3 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-2 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-5 Index: 601-052-00-2 Index: 601-052-00

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

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance of equivalent concern

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.

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 3/18

SECTION 4: First aid measures

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. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first. Within a few hours, tissue will become swollen, discolored and extremely painful.

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

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.

Date of issue/Date of revision : 22-06-2023 : 03-09-2021 Version : 1.02 4/18 Date of previous issue

SECTION 5: Firefighting measures

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.

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. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled 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).

7.1 Precautions for safe handling

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 5/18

SECTION 7: Handling and storage

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
☑istillates (petroleum), hydrotreated light	Limit values (Belgium, 12/2020).
paraffinic	TWA: 5 mg/m ³ 8 hours. Form: mist
	STEL: 10 mg/m³ 15 minutes. Form: mist
	EU OEL (Europe).
	TWA: 5 mg/m³ 8 hours.
	STEL: 10 mg/m³ 15 minutes.
Hydrocarbons, C13-C16, n-alkanes, isoalkanes,	EU OEL (Europe).
cyclics, <0.03% aromatics	TWA: 5 mg/m³ 8 hours.
	STEL: 10 mg/m³ 15 minutes.
naphthalene	Limit values (Belgium, 5/2021). Absorbed through skin.
	TWA: 10 ppm 8 hours.
	TWA: 53 mg/m³ 8 hours.
	STEL: 15 ppm 15 minutes.
	STEL: 80 mg/m³ 15 minutes.
	EU OEL (Europe, 10/2019). Notes: list of indicative
	occupational exposure limit values
	TWA: 10 ppm 8 hours.
	TWA: 50 mg/m³ 8 hours.

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 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

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 6/18

SECTION 8: Exposure controls/personal protection

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	Туре	Exposure	Value	Population	Effects
2,6-di-tert-butylphenol	DNEL	Long term Oral	6.75 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	11.25 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	20.9 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	70.61 mg/ m³	Workers	Systemic
	DNEL	Long term Dermal	6.75 mg/ kg bw/day	General population	Systemic
tris(methylphenyl) phosphate	DNEL	Long term Oral	0.02 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.03 mg/m ³		Systemic
	DNEL	Long term Dermal	0.15 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.18 mg/m ³		Systemic
	DNEL	Long term Dermal	0.41 mg/ kg bw/day	Workers	Systemic
(4-nonylphenoxy)acetic acid	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	0.43 mg/m ³		Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	4.3 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	17.6 mg/m³		Systemic
Phenol, dodecyl-, branched	DNEL	Long term Oral	0.075 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.075 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.79 mg/m ³	General population	Systemic
	DNEL	Short term Oral	1.26 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Inhalation	13.26 mg/ m ³	General population	Systemic
	DNEL	Short term Inhalation	44.18 mg/ m³	Workers	Systemic
	DNEL	Short term Dermal	50 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	166 mg/kg bw/day	Workers	Systemic
naphthalene	DNEL	Long term Dermal	3.57 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	25 mg/m ³	Workers	Local

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 7/18

SECTION 8: Exposure controls/personal protection

DNEL Long term	25 mg/m ³	Workers	Systemic
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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. 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. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

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

: 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. 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.

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 : Green.

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 8/18

SECTION 9: Physical and chemical properties

: Characteristic. **Odor threshold** Not available. : Not applicable. Melting point/freezing point

: 50°C (-58°F) [ASTM D 97] **Pour point**

Initial boiling point and

boiling range

: >270°C (>518°F)

Flammability Lower and upper explosion

Lower: 0.5%

limit

Upper: 5%

: Not applicable.

Flash point

Øpen cup: 125°C (257°F) [ASTM D 92]

Auto-ignition temperature

: >215°C (>419°F)

Decomposition temperature

: >215°C

pН

: Not applicable.

Viscosity

Kinematic (40°C (104°F)): 18.7 mm²/s (18.7 cSt) [ASTM D 445] Kinematic (100°C (212°F)): 6.15 mm²/s (6.15 cSt) [ASTM D 445]

Solubility(ies)

Media	Result
old water	Not soluble
hot water	Not soluble

Partition coefficient: n-octanol/ : Not applicable.

water

: <0.01 kPa (<0.075006 mm Hg) Vapor pressure

: 0.84 g/cm³ [15°C (59°F)] [ASTM D 4052] **Density**

: Not available. Vapor density **Explosive properties** : Not applicable. **Oxidizing properties** : Not applicable.

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

Not available.

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.

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

Strong oxidizing materials

10.6 Hazardous

decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Date of issue/Date of revision : 03-09-2021 : 22-06-2023 Version : 1.02 9/18 Date of previous issue

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 <u>Acute toxicity</u>

Product/ingredient name	Result	Species	Dose	Exposure
☑istillates (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	-
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	LC50 Inhalation Vapor	Rat	>5266 mg/m³	4 hours
	LD50 Dermal	Rabbit	>3160 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Gas oils (petroleum), hydrodesulfurized	LC50 Inhalation Vapor	Rat - Male, Female	4.6 mg/l	4 hours
	LD50 Dermal	Rabbit - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
2,6-di-tert-butylphenol	LD50 Dermal	Rabbit	>10 g/kg	-
•	LD50 Oral	Rat	1320 mg/kg	-
tris(methylphenyl) phosphate	LD50 Dermal	Rabbit	>10000 mg/kg	-
, , , , , ,	LD50 Oral	Rat	3 g/kg	-

Conclusion/Summary

naphthalene

: Not available.

LD50 Dermal

LD50 Oral

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Øas oils (petroleum), hydrodesulfurized	N/A	N/A	4500	N/A	N/A
tris(methylphenyl) phosphate	3000	N/A	N/A	N/A	N/A
(4-nonylphenoxy)acetic acid	500	N/A	N/A	N/A	N/A
naphthalene	490	N/A	N/A	N/A	N/A

Rabbit

Rat

>20 g/kg

490 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
D istillates (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
Gas oils (petroleum), hydrodesulfurized	Eyes - Irritant	Rabbit	-	-	-
	Skin - Edema	Rabbit	1.9	_	-
2,6-di-tert-butylphenol	Skin - Moderate irritant	Rat	-	0.5 MI	-
tris(methylphenyl) phosphate	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 0.05 MI	-

Conclusion/Summary

Sensitization

: Not available.

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 10/18

Q8 LHM+

SECTION 11: Toxicological information

Product/ingredient name	Route of exposure	Species	Result
pistillates (petroleum), hydrotreated light paraffinic	skin	Guinea pig	Not sensitizing

Conclusion/Summary

: Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
istillates (petroleum), hydrotreated light paraffinic	474 Mammalian Erythrocyte	Experiment: In vivo Subject: Mammalian-Animal	Negative
	Micronucleus Test	Cell: Somatic	
Gas oils (petroleum),	471 Bacterial Reverse	Experiment: In vitro	Positive
hydrodesulfurized	Mutation Test	Subject: Bacteria	
	475 Mammalian Bone	Experiment: In vivo	Negative
	Marrow Chromosomal	Subject: Mammalian-Animal	
	Aberration Test	Cell: Germ, Somatic	

Conclusion/Summary

: Not available.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
☑istillates (petroleum), hydrotreated light paraffinic	Negative - Dermal - TC	Mouse - Female	-	78 weeks
Gas oils (petroleum), hydrodesulfurized	Positive - Dermal - TCLo	Mouse - Male	-	-

Conclusion/Summary

: Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Distillates (petroleum), hydrotreated light paraffinic	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-
Gas oils (petroleum), hydrodesulfurized	Positive	Negative	Positive	Rabbit - Female	Dermal	-

Conclusion/Summary

: Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
	Negative - Dermal	Rat	2000 mg/kg	7 days per week
Gas oils (petroleum), hydrodesulfurized	Positive - Dermal	Rat - Male, Female	-	-

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
Ø8 LHM+	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light paraffinic	ASPIRATION HAZARD - Category 1
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	ASPIRATION HAZARD - Category 1
Gas oils (petroleum), hydrodesulfurized	ASPIRATION HAZARD - Category 1

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 11/18

SECTION 11: Toxicological information

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.

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
vistillates (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/m ³	4 weeks; 5 days per week
Gas oils (petroleum), hydrodesulfurized	Chronic LOEL Inhalation Vapor	Rat - Male, Female	23 mg/m³	6 hours; 5 days per week
	Chronic NOAEL Dermal	Rabbit - Male, Female	1000 mg/kg	-

Conclusion/Summary: Not available.

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

or dermatitis.

Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Reproductive toxicity
 Wo 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

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 12/18

SECTION 11: Toxicological information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	Acute EC50 >3193 mg/l	Daphnia	48 hours
	Acute IC50 >10000 mg/l	Algae	72 hours
	Acute LC50 >1000 mg/l	Fish	96 hours
Gas oils (petroleum), hydrodesulfurized	Acute LC50 65 mg/l Fresh water	Fish	96 hours
•	Chronic NOEC 0.163 mg/l Fresh water	Daphnia	21 days
	Chronic NOEC 0.069 mg/l Fresh water	Fish	14 days
tris(methylphenyl) phosphate	Acute EC50 290 μg/l Fresh water	Algae - Stephanodiscus	96 hours
		hantzschii - Exponential growth phase	
	Acute EC50 170 μg/l Fresh water	Fish - Gasterosteus aculeatus	96 hours
	Acute LC50 0.09 mg/l Fresh water	Daphnia - Daphnia magna - Instar	48 hours
	Chronic NOEC 0.32 μg/l Fresh water	Fish - Gasterosteus aculeatus - Egg	35 days
naphthalene	Acute EC50 1.6 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2350 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 µg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - Uca pugnax - Adult	3 weeks
	Chronic NOEC 1.5 mg/l Fresh water	Fish - Oreochromis mossambicus	60 days

Conclusion/Summary

: Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics, <0.03% aromatics	-	74 % - 28 days	-	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
☑istillates (petroleum), hydrotreated light paraffinic	-	-	Inherent
Hydrocarbons, C13-C16, n-alkanes, isoalkanes, cyclics,	-	-	Readily
<0.03% aromatics			

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
istillates (petroleum), hydrotreated light paraffinic	>3	-	low
2,6-di-tert-butylphenol	4.5	-	high
tris(methylphenyl) phosphate	5.93	794.33	high
Phenol, dodecyl-, branched	6.1	1601	high
naphthalene	3.4	36.5 to 168	low

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 13/18

Q8 LHM+

SECTION 12: Ecological information

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.

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 01 10*	mineral based non-chlorinated hydraulic 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)	-	-	-	-

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 14/18

Q8 LHM+

SECTION 14: Transport information

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.

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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Foxic to reproduction	phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	Candidate	D(2021) 4569-DC	08-07-2021
Endocrine disrupting properties for human health	phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	Candidate	D(2021) 4569-DC	08-07-2021
Endocrine disrupting properties for environment	phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof	Candidate	D(2021) 4569-DC	08-07-2021

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

: Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) -

: Not listed

Air

Industrial emissions (integrated pollution prevention and control) -Water

: Not listed

Ozone depleting substances (1005/2009/EU)

Date of issue/Date of revision : 03-09-2021 : 22-06-2023 Version : 1.02 15/18 Date of previous issue

Q8 LHM+

SECTION 15: Regulatory information

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.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
1	chemicals	polyzyklische aromatische Kohlenwasserstoffen	Carc.	-

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

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 : Not determined.

Eurasian Economic Union: Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.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 : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States of America : Not determined.
Viet Nam : Not determined.

15.2 Chemical Safety

Assessment

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

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 16/18

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,

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 (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	
·	Expert judgment Expert judgment	

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 17/18

SECTION 16: Other information

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

⊬ 228	Flammable solid.	
H302	Harmful if swallowed.	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H351	Suspected of causing cancer.	
H360F	May damage fertility.	
H361	Suspected of damaging fertility or the unborn child.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

Full text of classifications [CLP/GHS]

Cute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Sol. 2	FLAMMABLE SOLIDS - Category 2
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1

Training advice : Ensure operatives are trained to minimise exposures.

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Prepared by : Kuwait Petroleum Research & Technology B.V., The Netherlands

Notice to reader

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.

Date of issue/Date of revision : 22-06-2023 Date of previous issue : 03-09-2021 Version : 1.02 18/18