Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Denmark

SAFETY DATA SHEET

Q8 Rubens HT 2



SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: Q8 Rubens HT 2
Viscosity or Type	: Lithium Complex Grease. NLGI 2
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Material uses	: grease
1.3 Details of the supplier of	the safety data sheet
Supplier	: Q8 Danmark A/S Arne Jacobsens Allé 17 2300 København S, Danmark Tel.: +45 7012 4545 Email: produktteknik@Q8.dk Web: www.Q8.dk
Manufacturer / Distributor	: Kuwait Petroleum Belgium N.V./S.A. Petroleumkaai 7 B-2020 Antwerp Belgium / Q8Oils Italia S.r.I. Via Volpedo 2 15050 Castellar Guidobono (AL) 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 nu	mber
Denmark	: +45 8988 2286 CARECHEM24
Europe	: +44 (0) 1235 239 670
Global (English only)	: +44 (0) 1865 407 333
National advisory body/Poi	son Center
Denmark	: Bispebjerg Hospital - poison line : +45 8212 1212
SECTION 2: Hazards	identification
2.1 Classification of the subs	tance or mixture
Product definition	: Mixture
	Regulation (EC) No. 1272/2008 [CLP/GHS]
AQUATIC HAZARD (LONG-1	,
	azardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	: None.
Ingredients of unknown ecotoxicity	: None.
	t of the H statements declared above. iled information on health effects and symptoms.
2.2 Label elements	
Signal word	: No signal word.
Hazard statements	: H412 - Harmful to aquatic life with long lasting effects.

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SECTION 2: Hazards identification

Precautionary statements		
Prevention	4	P273 - Avoid release to the environment.
Response	1	Not applicable.
Storage	1	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	:	Contains Naphthenic acids, bismuth salts and Amines, C12-14-tert-alkyl, compds. with 2(3H)-benzothiazolethione. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>ts</u>
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

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Lithium grease based on mineral oil with additives.	-	≥90	Not classified.	-	[2]
dilithium azelate	REACH #: 01-2120119814-57 EC: 254-184-4 CAS: 38900-29-7	≤5	Acute Tox. 4, H302	ATE [Oral] = 500 mg/kg	[1]
Naphthenic acids, bismuth salts	REACH #: 01-2120769500-56 EC: 288-470-5 CAS: 85736-59-0	≤3	Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
Amines, C12-14-tert-alkyl, compds. with 2(3H)- benzothiazolethione	REACH #: 01-2120785699-27 EC: 272-782-3 CAS: 68911-68-2	≤1	Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Dermal] = 1100 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]

SECTION 3: Composition/information on ingredients 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.

Туре

[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	:	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. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. 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	: No specific data.

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, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	rom	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 metal oxide/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	r c	ontainment 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. 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 non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

SECTION 6: Accidental release measures

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6.4 Reference to	o 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 ingest. 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. 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 solutions	: Not available.

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
Ithium grease based on mineral oil with additives.	EU OEL (Europe) TWA: 5 mg/m³ (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

SECTION 8: Exposure controls/personal protection

Product/ingredient name	Туре	Exposure	Value	Population	Effects
dilithium azelate	DNEL	Long term Dermal	0.023 mg/ cm ²	General population	Local
Naphthenic acids, bismuth salts	DNEL	Long term Oral	0.227 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.227 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.635 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.789 mg/ m ³	General population	Systemic
	DNEL	Long term Inhalation	4.47 mg/m ³		Systemic

PNECs

No PNECs available.

8.2 Exposure controls		
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airbo contaminants.	orne
Individual protection measured	<u>es</u>	
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 per Appropriate techniques should be used to remove potentially contaminated cloth Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	hing.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a ris assessment indicates this is necessary to avoid exposure to liquid splashes, mis gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses will side-shields.	sts,
Skin protection		
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard she be worn at all times when handling chemical products if a risk assessment indic this is necessary. Considering the parameters specified by the glove manufactur 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.	ates urer,
Body protection	: Personal protective equipment for the body should be selected based on the tas being performed and the risks involved and should be approved by a specialist before handling this product.	sk
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.	be
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets t appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other impor aspects of use. Recommended: Boiling point > 65 °C: A1; Boiling point < 65 °C AX1; Hot material: A1P2. Gas and combination filter cartridges should comply the European standard EN14387.	tant :
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 proce equipment will be necessary to reduce emissions to acceptable levels.	
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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

5.1 mornation on basic physica		
Appearance		
Physical state	Liquid. [grease]	
Appearance	Thick, oily liquid.	
Color	Ørange	
Odor	Hydrocarbon.	
Odor threshold	Not applicable.	
Melting point/freezing point	Not available.	
Boiling point or initial boiling point and boiling range	>250°C (>482°F)	
Flammability	Not applicable.	
Lower and upper explosion limit	Not available.	
Flash point	Open cup: >150°C (>302°F) [ASTM D 92]	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
рН	Not applicable.	
Viscosity	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) [ASTM D 445]	
Solubility		
Media	Result	
cold water hot water	Not soluble Not soluble	
Solubility in water	Not available.	
Miscible with water	No.	
Partition coefficient n-octanol/ water (log Pow)	Not applicable.	
Vapor pressure	Not available.	
Density	<1 g/cm³	
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	ysical hazard classes	
Explosive properties	Not applicable.	
Oxidizing properties	Not applicable.	
9.2.2 Other safety characteristic		
Miscible with water	No.	

SECTION	10:	Stability and	l reactivity
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10.1 Reactivity	1	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.

SECTION 11: Toxicological information

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

Acute toxicity

Conclusion/Summary : Not available.

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)
dilithium azelate Amines, C12-14-tert-alkyl, compds. with 2(3H)- benzothiazolethione	500 N/A	N/A 1100	N/A N/A	N/A N/A	N/A N/A

Irritation/Corrosion

Conclusion/Summary					
Eyes	: Vapor may be irritating to eyes and respiratory system.				
Respiratory	: Vapor may be irritating to eyes and respiratory system.				
Respiratory or skin sensit	ization				
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicity (single exposure)					
Not available.					
Specific target organ toxicity (repeated exposure)					
Not available.					
Achieve beyond					
Aspiration hazard					

Q8 Rubens HT 2	
SECTION 11: Toxico	ological information
Information on the likely routes of exposure	: Not available.
Potential acute health effec	<u>ts</u>
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: No known significant effects or critical hazards.
Symptoms related to the ph	uysical, 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	: No specific data.
Delayed and immediate effe	ects and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health ef	fects
Not available.	
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.
	-

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Mutagenicity

11.2.2 Other information

Reproductive toxicity

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Q8 Rubens HT 2	Acute EC50 >100 mg/l Acute LC50 >100 mg/l Acute LC50 >100 mg/l	Daphnia Algae Fish	48 hours 72 hours 96 hours
Conclusion/Summary	: Not available.		

: No known significant effects or critical hazards.

: No known significant effects or critical hazards.

SECTION 12: Ecological information

12.2 Persistence and degradability

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Q8 Rubens HT 2	-	-	Not readily

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
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. Yes. ÷.

Hazardous waste

European waste catalogue (EWC)

Waste code	Waste designation					
13 08 99*	wastes not otherwise specified					
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	ΙΑΤΑ
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.

14.7 Maritime transport in : Not available. bulk according to IMO instruments

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			%	Designatio	on [Usage]				
Q8 Rubens HT 2			≥90	3					
Labeling	:	Not applicab	le.						
Other EU regulations									
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed							
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed							
Explosive precursors	1	Not applicab	le.						
Ozone depleting substance	es	<u>(1005/2009/E</u>	<u>:U)</u>						
Not listed.									
Prior Informed Consent (Pl	IC)	<u>(649/2012/EU</u>	n)						
ate of issue/Date of revision		: 13-11-2024	Date of previo	us issue	: 14-12-2023	Versi	ion	:1.04	11/15

SECTION 15: Regulatory information

Not listed.

Persistent Organic Pollutants (1021/2019/EU) Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations		
<u>Denmark</u>		
Product registration number	:	PR-nr. 4513998
Fire class	:	W -1
MAL-code	:	Ø 0-5
Protection based on MAL	:	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 00-5

Application: When using scraper or knife, brush, roller etc. for pre- and posttreatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Protective clothing must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask and protective clothing must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, protective clothing and hood must be worn.

SECTION 15: Regulatory information

Drying: Items for drying/drying ovens that are temporarily placed on such things as
rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent
fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See 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

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		
Callaua		All components are listed or exempted.
China	4	All components are listed or exempted.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	All components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States of America	:	All components are active or exempted.
Viet Nam	1	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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Indicates information	on that has changed from previously issued version.
Abbreviations and acronyms	: ADN = 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 [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		
Aquatic Chronic 3, H412	Expert judgment		

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.

SECTION 16: Other information

Full text of abbreviated H statements				
H302 Ha	Harmful if swallowed.			
H312 Ha	Harmful in contact with skin.			
H315 Ca	uses skin irritation.			
	ay cause an allergic skin reaction.			
	uses serious eye damage.			
	uses serious eye irritation.			
	ry toxic to aquatic life.			
	ry toxic to aquatic life with long lasting effects.			
H412 Ha	rmful to aquatic life with long lasting effects.			
Full text of classific	ations [CLP/GHS]			
Acute 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 3	AQUATIC HAZARD (LONG-TERM) - Category 3			
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1			
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2			
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2			
Skin Sens. 1	SKIN SENSITIZATION - Category 1			
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B			
Training advice	: Ensure operatives are trained to minimise exposures.			
Date of printing	: 13-11-2024			
Date of issue/ Date	of : 13-11-2024			
revision				
Date of previous is	sue : 14-12-2023			
Version	: 1.04			
Prepared by	: Kuwait Petroleum Research & Technology B.V., The Netherlands			
Notice to reader				

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.