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

SAFETY DATA SHEET

Q8 T 45 LS 85W-140



1.1 Product identifier				
Product name	:	Q8 T 45 LS 85W-140		
Viscosity or Type	-	SAE 85W-140		
1.2 Relevant identified uses	of t	ne substance or mixture and uses	advised	d against
Material uses	- 1	Lubricating oil for automotive transm	nissions	
1.3 Details of the supplier of	the	safety data sheet		
Supplier	:	Kuwait Petroleum Companies in the Company Office: Brusselstraat 59, 2 Contactaddress: Petroleumkaai 7, 2 Tel. +32 3 247 38 11, Fax +32 3 216	018 Ani 020 Ant	twerp, Belgium
Manufacturer / Distributor	:	Kuwait Petroleum Belgium N.V./S.A. Petroleumkaai 7 B-2020 Antwerp Belgium	. /	Q8Oils Italia S.r.l. Via Volpedo 2 15050 Castellar Guidobono (AL) Italy
e-mail address of person responsible for this SDS				unio Ecolista esta
PCN Information contact		SDSinfo@Q8.com, communication p PCNinfo@Q8.com, communication p		
1.4 Emergency telephone nu	ımb	er		
Europe	:	+44 (0) 1235 239 670	CAB	
Global (English only)	:	+44 (0) 1865 407 333	C/ III	TIMME.
National advisory body/Po	isor	Center		
Belgium	:	Poison Centre : +32 (0)70 245 245		

2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to Not classified.	Regulation (EC) No. 1272/2008 [CLP/GHS]
The product is not classified	as hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	: None.
Ingredients of unknown ecotoxicity	: None.
See Section 11 for more det	ailed information on health effects and symptoms.
2.2 Label elements	
Signal word	: No signal word.
Hazard statements	: No known significant effects or critical hazards.
Precautionary statements	
Prevention	: Not applicable.
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SECTION 2: Hazards identification

Response	Not app	licable.
Storage	Not app	licable.
Disposal	Not app	licable.
Supplemental label elements	phospho Reaction heptyl de	s Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with brus oxide, propylene oxide and amines, C12-14-alkyl (branched) and n product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, erivs May produce an allergic reaction. ata sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not app	licable.
Detergents - Regulation (EC) No 648/2004	Not app	licable.
Special packaging requirem	<u>ts</u>	
Containers to be fitted with child-resistant fastenings	Not app	licable.
Tactile warning of danger	Not app	licable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	This mix vPvB.	ture does not contain any substances that are assessed to be a PBT or a
Other hazards which do not result in classification	•	ed or repeated contact may dry skin and cause irritation. May cause ne disruption.

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≥75 - ≤90	Not classified.	-	[2]
Distillates (petroleum), hydrotreated heavy naphthenic	REACH #: 01-2119467170-45 EC: 265-155-0 CAS: 64742-52-5 Index: 649-465-00-7	≤3	Not classified.	-	[2]
Reaction products of bis (4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	REACH #: 01-2119493620-38 EC: 931-384-6	≤2.3	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 2, H411	ATE [Oral] = 2000 mg/kg Eye Irrit. 2, H319: C ≥ 50% Skin Sens. 1, H317: C ≥ 9.39%	[1]
Reaction Products of alcohols, C14-18, C18 unsat., esterified with	REACH #: 01-2119978530-33 EC: 939-591-3	≤1.7	Aquatic Chronic 3, H412	-	[1]

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SECTION 3: Composition/information on ingredients					
phosphorus pentoxide and salted with amines, C12-14, -tert-alkyl	CAS: 1471315-74-8				
1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde	REACH #: 01-2119971727-23 EC: 939-460-0 CAS: 1471311-26-8	≤0.3	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared above.	-	[1] [3]

* Contains one or more of the following:

CAS: 64742-01-4, EC: 265-101-6, EU REACH: 01-2119488707-21 CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25 CAS: 64742-55-8, EC: 265-158-7, EU REACH: 01-2119487077-29 CAS: 64742-56-9, EC: 265-159-2, EU REACH: 01-2119480132-48 CAS: 64742-57-0, EC: 265-160-8, EU REACH: 01-2119489287-22 CAS: 64742-65-0, EC: 265-169-7, EU REACH: 01-2119471299-27

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.

<u>Type</u>

[1] 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 n	leasures
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

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SECTION 4: First aid measures

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	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.
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, pro	te	ctive 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).

SECTION 6: Accidental release measures

6.3 Methods and material	s 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. 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.
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 ha	Indling
Protective measures	: Put on appropriate personal protective equipment (see Section 8).
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					
Severely refined mineral oil (C15 - C50) * - Not classified.	Limit values (Belgium, 5/2021). [] TWA: 5 mg/m ³ 8 hours. Form: mist STEL: 10 mg/m ³ 15 minutes. Form: mist					
Distillates (petroleum), hydrotreated heavy naphthenic	EU OEL (Europe). TWA: 5 mg/m ³ 8 hours. Form: STEL: 10 mg/m ³ 15 minutes. F Limit values (Belgium, 5/2021 TWA: 5 mg/m ³ 8 hours. Form: STEL: 10 mg/m ³ 15 minutes. F EU OEL (Europe).	Form: Mist). [Mineral oils] • mist				
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SECTION 8: Exposure controls/personal protection

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

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Distillates (petroleum), hydrotreated	DNEL	Long term Oral	0.74 mg/	General	Systemic
heavy naphthenic		Long torm Dormal	kg bw/day	population	Svatamia
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.19 mg/m ³	General population	Local
	DNEL	Long term Inhalation	2.73 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	5.58 mg/m ³	Workers	Local
Reaction product of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and phenol, heptyl derivs.	DNEL	Long term Oral	0.33 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.58 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	2.35 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	33.33 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	66.7 mg/ kg bw/day	Workers	Systemic

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 meas	<u>ures</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 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							
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SECTION 8: Exposure controls/personal protection

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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. 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.

<u>Appearance</u>	
Physical state	: Liquid. [Oily liquid.]
Appearance	: Clear.
Color	: Yellow
Odor	: Characteristic.
Odor threshold	: Not available.
Melting point/freezing point	: Not applicable.
Pour point	: -21°C (-5.8°F) [ASTM D 97]
Initial boiling point and boiling range	: >300°C (>572°F)
Flammability	: Not applicable.
Lower and upper explosion limit	: Not available.
Flash point	: Closed cup: >200°C (>392°F) [ASTM D 93]
Auto-ignition temperature	: >300°C (>572°F)
Decomposition temperature	: >300°C
рН	Not applicable.
Viscosity	: Kinematic (40°C (104°F)): 364 mm²/s (364 cSt) [ASTM D 445] Kinematic (100°C (212°F)): 26.6 mm²/s (26.6 cSt) [ASTM D 445]
Solubility(ies)	:

9.1 Information on basic physical and chemical properties

Solubility(ies)

Media	Result
cold water hot water	Not soluble Not soluble
Solubility in water :	Not available.
Partition coefficient: n-octanol/ : I water	Not applicable.
Vapor pressure :	<0.01 kPa (<0.075006 mm Hg)

SECTION 9: Physical and chemical properties

Density	: 0.91 g/cm³ [15°C (59°F)] [ASTM D 4052]
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	pł	nysical hazard classes
Explosive properties	÷,	Not applicable.
Oxidizing properties	÷	Not applicable.
9.2.2 Other safety characteristics		

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.

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.53 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-
Distillates (petroleum), hydrotreated heavy naphthenic	LD50 Oral	Rat	>5000 mg/kg	-
Reaction products of bis (4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	LD50 Oral	Rat - Male, Female	2000 mg/kg	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Q8 T 45 LS 85W-140 Severely refined mineral oil (C15 - C50) * - Not classified.	123571.2 N/A	N/A N/A	N/A N/A	N/A N/A	N/A 5.53
Reaction products of bis(4-methylpentan-2-yl) dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	2000	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Severely refined mineral oil (C15 - C50) * - Not classified.	Eyes - Iris lesion	Rabbit	0	48 hours	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.33	48 hours	72 hours
	Skin - Edema Skin - Erythema/Eschar	Rabbit Rabbit	0 0.17	72 hours 72 hours	7 days 7 days

Conclusion/Summary : Not available.

Sensitization

Product/ingredient name	Route of exposure	Species	Result
Severely refined mineral oil (C15 - C50) * - Not classified.	skin	Guinea pig	Not sensitizing
Reaction product of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and phenol, heptyl derivs.	skin	Guinea pig	Sensitizing

Conclusion/Summary : Not available.

: Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
Severely refined mineral oil	474 Mammalian	Experiment: In vivo	Negative
(C15 - C50) * - Not	Erythrocyte	Subject: Mammalian-Animal	
classified.	Micronucleus Test	Cell: Somatic	

Conclusion/Summary

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative - Dermal - TC	Mouse - Female	-	78 weeks

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative	Negative	Negative	,	Oral: 1000 mg/ kg	-
Conclusion/Summary	: Not availa	able.		·		

<u>Teratogenicity</u>

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure	
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative - Dermal	Rat	2000 mg/kg	7 days per week	
Conclusion/Summary	: Not available.				
Specific target organ toxicit	<u>y (single exposure)</u>				
Not available.					
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>				
Aspiration hazard Not available.					
nformation on the likely outes of exposure	: Not available.				
Potential acute health effects					
Eye contact	: No known significant effects	or critical hazards	S.		
Inhalation	: No known significant effects	or critical hazards	S.		
Skin contact	: Defatting to the skin. May c	ause skin dryness	and irritation.		
Ingestion	: No known significant effects	or critical hazards	S.		
	sical, chemical and toxicologi	ical characteristi	<u>CS</u>		
Eye contact	: No specific data.				
Inhalation	: No specific data.				
Skin contact	: Adverse symptoms may incl irritation dryness cracking	lude the following:			
Ingestion	: No specific data.				
)elaved and immediate effec	ts and also chronic effects fro	om short and lone	a term exposure		
Short term exposure					
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 effe	ects		-		
Product/ingredient name	Result	Species	Dose	Exposure	
Severely refined mineral oil (C15 - C50) * - Not classified.	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	Rat - Male	>980 mg/m ³	4 weeks; 5 days	

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

SECTION 11: Toxicological information

- Carcinogenicity
- : No known significant effects or critical hazards.
- **Mutagenicity**
 - : No known significant effects or critical hazards.
- **Reproductive toxicity**
- : 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
Severely refined mineral oil (C15 - C50) * - Not classified.	Acute NEL >100 mg/l Fresh water	Algae	72 hours
	Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water Chronic NEL 10 mg/l Fresh water	Daphnia - Daphnia Magma Fish - Pimephales promelas Daphnia - Daphnia magna	48 hours 96 hours 21 days

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Reaction Products of alcohols, C14-18, C18 unsat. , esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl Reaction product of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and phenol, heptyl derivs.	-	17.4 % - 28 days 17.4 % - 28 days	-	-

: Not available.

Conclusion/Summary

Aquatic half-life	Photolysis	Biodegradability
-	-	Inherent
-	-	Inherent
		NI 4 Avera Physics
-	-	Not readily
		Not readily
-	_	Not readily
	-	

12.3 Bioaccumulative potential

SECTION 12: Ecological information

CECTION 12: Ecologi			
Product/ingredient name	LogPow	BCF	Potential
Reaction Products of alcohols, C14-18, C18 unsat. , esterified with phosphorus pentoxide and salted with amines, C12-14,-tert-alkyl Reaction product of 1,3,4-thiadiazolidine-	9.4	-	High High
2,5-dithione, formaldehyde and phenol, heptyl derivs.			

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

May cause endocrine disruption.

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.

Hazardous waste

European waste catalogue (EWC)

Waste code	Waste designation		
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.		

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

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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.

14.7 Maritime transport in 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

: Not available.

Annex XIV

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for environment	Reaction product of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and phenol, heptyl derivs.	Listed	-	-
Endocrine disrupting properties for environment	reaction products of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP- HP) (with ≥ 0,1 % w/w 4-heptylphenol, branched and linear)	Listed	57	01-05-2022

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for environment	Reaction product of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and phenol, heptyl derivs.	Candidate	-	-
Endocrine disrupting properties for environment	reaction products of 1,3,4-thiadiazolidine- 2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP- HP) with ≥0.1% w/w 4-heptylphenol, branched and linear (4-HPbl)	Recommended	ED/01/2018	01-10-2019

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

No listed substance

Date of issue/Date of revision

SECTION 15: Regulatory information

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 :	Not applicable.
Ozone depleting substances	<u>(1005/2009/EU)</u>
Not listed.	
Prior Informed Consent (PIC Not listed.	<u>) (649/2012/EU)</u>
Persistent Organic Pollutant Not listed.	<u>S</u>
<u>Seveso Directive</u>	
This product is not controlled u	nder the Seveso Directive.
National regulations	
Germany	
Hazard class for water : (WGK)	2
Switzerland	
	Exempt.
International regulations	
	n List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol	
Not listed.	
	whether the Derill Annotation
Stockholm Convention on Per Not listed.	rsistent Organic Pollutants
Rotterdam Convention on Price Not listed.	or Informed Consent (PIC)
UNECE Aarhus Protocol on P	ORe and Heavy Motals
Not listed.	Or s and neavy metals
Inventory list	All components are listed or everynted
	All components are listed or exempted. All components are listed or exempted.
	All components are listed or exempted.
	Russian Federation inventory: Not determined.
Japan :	Japan inventory (CSCL): All components are listed or exempted.
	Japan inventory (ISHL): Not determined.
New Zealand :	All components are listed or exempted.
	All components are listed or exempted.
Republic of Korea :	All components are listed or exempted.
	All components are listed or exempted.
Thailand :	Not determined.

Date of issue/Date of revision

SECTION 15: Regulatory information

Turkey	1	Not determined.
United States of America	:	All components are active or exempted.
Viet Nam	:	Not determined.
15.2 Chemical Safety Assessment	1	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	: ADN = European Provisions concerning the International Carriage of Dangerous
acronyms	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 deriv	the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]
	the diasonication according to Regulation (EO) NO. 1272/2000 [OEF/OHO]

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Not classified.

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

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Skin Irrit. 2 Skin Sens. 1B	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1B
Training advice	: Ensure operatives are trained to minimise exposures.
Date of printing	: 03-10-2023
Date of issue/ Date of revision	: 03-10-2023
Date of previous issue	e : 13-04-2022
Version	: 1.11
Prepared by	: Kuwait Petroleum Research & Technology B.V., The Netherlands
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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.