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

SAFETY DATA SHEET

Q8 Galilei 320



SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: Q8 Galilei 320
Viscosity or Type	: ISO VG 320
1.2 Relevant identified uses	f the substance or mixture and uses advised against
Material uses	: Lubricating oil for industrial gears
1.3 Details of the supplier of	he 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. Petroleumkaai 7 B-2020 Antwerp Belgium I 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	nber
Europe	: +44 (0) 1235 239 670
Global (English only)	: +44 (0) 1865 407 333
National advisory body/Poi	on Center
Belgium	: Poison Centre : +32 (0)70 245 245
SECTION 2: Hazards	identification
2.1 Classification of the subs	ance or mixture
Product definition	: Mixture
	Regulation (EC) No. 1272/2008 [CLP/GHS]
QUATIC HAZARD (LONG-	ERM) Category 3 H412
The product is classified as h Ingredients of unknown toxicity	zardous according to Regulation (EC) 1272/2008 as amended. : None.
Ingredients of unknown ecotoxicity	: None.
See Section 16 for the full tex	of the H statements declared above.
See Section 11 for more deta	ed 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.
Precautionary statements	
Prevention	: P273 - Avoid release to the environment.
Date of issue/Date of revision	: 26-03-2024 Date of previous issue : 17-12-2020 Version : 1.02 1/17

SECTION 2: Hazards identification

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 Amines, C10-14-tert-alkyl. 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	er	<u>its</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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≥50 - ≤75	Not classified.	-	[2]
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≤1	Not classified.	-	[2]
Severely refined mineral oil (C15 - C50) * - H304	-	≤0.3	Asp. Tox. 1, H304	-	[1] [2]
Amines, C10-14-tert-alkyl	REACH #: 01-2119456798-18 EC: 701-175-2 CAS: 68955-53-3	≤0.3	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg ATE [Dermal] = 251 mg/kg ATE [Inhalation (vapours)] = 0.5 mg/l M [Acute] = 1 M [Chronic] = 1	[1]
(Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)- alkylamines	REACH #: 01-2119473797-19 EC: 627-034-4 CAS: 1213789-63-9	≤0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1200 mg/kg M [Acute] = 10 M [Chronic] = 10	[1]
Date of issue/Date of revision	: 26-03-2024 Date	e of previous is	sue : 17-12-2020	Version :1.0	2 2/1

SECTION 3: Composition/information on ingredients STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.

Contains one or more of the following:

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 64742-65-0, 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.

Туре

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 imm	ediate 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	om 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	: No specific data.
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 in 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

SECTION 6: Accidental release measures

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.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not 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

SECTION 8: Exposure controls/personal protection

•	•				
Product/ingredient name	Exposure limit values				
└ubricating oils (petroleum), C20-50,	Limit values (Belgium, 5/2021) [Olie]				
hydrotreated neutral oil-based; Baseoil -	TWA 8 hours: 5 mg/m ³ . Form: mist.				
unspecified; [A complex combination of	STEL 15 minutes: 10 mg/m ³ . Form: mist.				
hydrocarbons obtained by treating light vacuum	EU OEL (Europe)				
gas oil, heavy vacuum gas oil and solvent deas-	TWA: 5 mg/m³ (oil Mist).				
phalted residual oil with hydrogen in the					
presence of a catalyst in a two stage process with dewaxing being carried out between the					
two stages. It consists predominantly of					
hydrocarbons having carbon numbers pre-					
dominantly in the range of C20 through C50					
and produces a finished oil with a viscosity of					
approximately 32cSt at 40°C. It contains a					
relatively large proportion of saturated					
hydrocarbons.]					
Severely refined mineral oil (C15 - C50) * - Not	EU OEL (Europe)				
classified.	TWA 8 hours: 5 mg/m ³ . Form: Mist.				
Coverally refined mineral ail (015 050) *	STEL 15 minutes: 10 mg/m ³ . Form: Mist.				
Severely refined mineral oil (C15 - C50) * - H304	EU OEL (Europe)				
11304	TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.				
Biological exposure indices					
No exposure indices known.					
Recommended monitoring : Reference should be a state of the state of	Ild be made to monitoring standards, such as the following:				
procedures 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					

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
Ubricating oils (petroleum), C20-50,	DNEL	Long term Oral	0.74 mg/	General	Systemic
hydrotreated neutral oil-based			kg bw/day	population	
	DNEL	Long term Dermal	0.97 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term	1.19 mg/m ³	General	Local
		Inhalation	0	population	
	DNEL	Long term	2.73 mg/m ³		Systemic
		Inhalation	U		,
	DNEL	Long term	5.58 mg/m ³	Workers	Local
		Inhalation	Ū.		
Amines, C10-14-tert-alkyl	DNEL	Long term Oral	0.35 mg/	General	Systemic
-		-	kg bw/day	population	
	DNEL	Long term	1.2 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Long term	2.5 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	12.1 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	12.5 mg/m³	Workers	Systemic
		Inhalation			
(Z)-octadec-9-enylamine, C16-18-	DNEL	Long term	0.035 mg/	General	Systemic
(even numbered, saturated and		Inhalation	m³	population	
unsaturated)-alkylamines					
ate of issue/Date of revision : 26-03-2024 Date of previous issue : 17-12-2020 Version : 1.02 6/17					

SECTION 8: Exposure controls/personal protection							
DNEL		40 µg/kg bw/day	General population	Systemic			
DNEL	Long term Inhalation	0.38 mg/m³	Workers	Systemic			
DNEL	Short term Inhalation	1 mg/m³	Workers	Local			
DNEL	Long term Inhalation	1 mg/m³	Workers	Local			

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>ires</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		
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 indicate 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.	s
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.	i
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

: Liquid. [Oily liquid.]
: Clear.
: Yellow [Light]
: Characteristic.
: Not available.
: Not applicable.
:
: >300°C (>572°F)
: Not applicable.
: Not available.
: Øpen cup: >190°C (>374°F) [ASTM D 92]
: >300°C (>572°F)
: >300°C
: Not applicable.
: Kinematic (40°C (104°F)): 321 mm²/s (321 cSt) [ASTM D 445] Kinematic (100°C (212°F)): 37.55 mm²/s (37.55 cSt) [ASTM D 445]

Solubility

Media		Result
cold water		Not soluble
hot water		Not soluble
Solubility in water	1	Not available.
Partition coefficient n-octanol/ water (log Pow)	1	Not applicable.
Vapor pressure	:	<mark>≮</mark> 0.01 kPa (<0.075006 mm Hg)
Density	:	Ø.9 g/cm³ [15°C (59°F)] [ASTM D 4052]
Relative vapor density	:	Not available.
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.
Particle characteristics		
Median particle size	1	Not applicable.

9.2.1 mormation with regar	u to physical nazaru classes
Explosive properties	: Not applicable.
Oxidizing properties	: Not applicable.

9.2.2 Other safety characteristics

Not applicable.

SECTION 10	: Stability and	reactivity
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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
Ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Severely refined mineral oil	LC50 Inhalation Dusts and	Rat - Male,	5.53 mg/l	4 hours
(C15 - C50) * - Not classified.	mists	Female		
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Severely refined mineral oil	LC50 Inhalation Dusts and	Rat - Male,	5.53 mg/l	4 hours
(C15 - Ć50) * - H304	mists	Female		
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Amines, C10-14-tert-alkyl	LC50 Inhalation Gas.	Rat	157 ppm	4 hours
	LD50 Dermal	Rabbit	1120 mg/kg	-
	LD50 Dermal	Rat	251 mg/kg	-
	LD50 Oral	Rat	300 mg/kg	-
(Z)-octadec-9-enylamine,	LD50 Oral	Rat - Male	1200 mg/kg	-
C16-18-(even numbered,				
saturated and unsaturated)- alkylamines				

Conclusion/Summary : No known significant effects or critical hazards.

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)
8 Galilei 320 Severely refined mineral oil (C15 - C50) * - Not classified.	N/A N/A	189434.0 N/A	N/A N/A	377.4 N/A	N/A 5.53
Severely refined mineral oil (C15 - C50) * - H304 Amines, C10-14-tert-alkyl (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	N/A 500 1200	N/A 251 N/A	N/A N/A N/A	N/A 0.5 N/A	5.53 N/A N/A

Irritation/Corrosion

SECTION 11: Toxicological information

	•				
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	Rabbit	0	72 hours	7 days
	Skin - Erythema/Eschar	Rabbit	0.17	72 hours	7 days
Severely refined mineral oil (C15 - C50) * - H304	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

Conclusion/Summary

: Non-irritant to skin.

Skin Eyes

: Non-irritating to the eyes.

Respiratory

: Non-irritant to lungs.

Respiratory or skin sensitization

Product/ingredient name	Route of exposure	Species	Result
Severely refined mineral oil (C15 - C50) * - Not classified.	skin	Guinea pig	Not sensitizing
Severely refined mineral oil (C15 - C50) * - H304	skin	Guinea pig	Not sensitizing
Àmines, CÍ0-14-tert-alkyl	skin	Guinea pig	Sensitizing

Conclusion/Summary

Skin

: Not sensitizing. The classification of this hazard is based on tests performed on the product/mixture. (similar material)

Respiratory

: Not classified for respiratory sensitization.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
(C15 - C50) * - Not classified.	Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative
Severely refined mineral oil (C15 - C50) * - H304	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

Conclusion/Summary

: No known significant effects or critical hazards.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure	
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative - Dermal - TC	Mouse - Female	-	78 weeks	
Severely refined mineral oil (C15 - C50) * - H304	Negative - Dermal - TC	Mouse - Female	-	78 weeks	
Conclusion/Summary	: No known significant effects or critical hazards.				

Reproductive toxicity

SECTION 11: Toxicological information

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Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-
Severely refined mineral oil (C15 - C50) * - H304	Negative	Negative	Negative	Rat - Male, Female	Oral: 1000 mg/ kg	-

Conclusion/Summary

: No known significant effects or critical hazards.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
(C15 - Ć50) * - Not classified. Severely refined mineral oil	Negative - Dermal Negative - Dermal	Rat Rat	2000 mg/kg 2000 mg/kg	7 days per week 7 days per week
(C15 - C50) * - H304				

Conclusion/Summary : No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
icont provide the second state of the secon	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
icont and investigation of the second state	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result	
Severely refined mineral oil (C15 - C50) * - H304 (Z)-octadec-9-enylamine, C16-18-(even numbered, saturated and unsaturated)-alkylamines	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	

Information on the likely : Not available.

routes of exposure

Potential acute health effects		
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 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	: No specific data.

SECTION 11: Toxicological information

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

<u>Short term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>

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 Vapor	Rat - Male	>980 mg/m³	4 weeks; 5 days per week		
Severely refined mineral oil (C15 - C50) * - H304	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 Vapor	Rat - Male	>980 mg/m³	4 weeks; 5 days per week		
Conclusion/Summary	: No known significant effects	or critical hazards				
General	: Prolonged or repeated conta or dermatitis.	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	No known significant effects or critical hazards.				

: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Reproductive toxicity

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	IC50 >100 mg/l	Fish	96 hours
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
Severely refined mineral oil (C15 - C50) * - H304	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 - <i>Daphnia Magma</i> Fish - <i>Pimephales promelas</i> Daphnia - <i>Daphnia magna</i>	48 hours 96 hours 21 days

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SECTION 12: Ecological information

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
└ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301B	49 % - 28 days		-	-
Conclusion/Summary	: Not available.	-		-	
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	-		-		Inherent
Severely refined mineral oil (C15 - C50) * - Not classified.	-		-		Inherent
Severely refined mineral oil (C15 - C50) * - H304	-		-		Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Ubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	>6	-	High
Amines, C10-14-tert-alkyl	2.9	-	Low

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.

SECTION 13: Disposal considerations

Hazardous waste	: Yes.						
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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.						

SECTION 14: Transport information

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

user

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

14.7 Maritime transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

SECTION 15: Regulatory information

Product/ingredient name			%	Designation	n [Usage]			
8 Galilei 320 octamethylcyclotetrasiloxane			≥90 <0.01	3 70				
Labeling	:	Not applicab	ole.					
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 applicab	ole.					
Ozone depleting substance	S	(1005/2009/E	<u>:U)</u>					
Not listed.								
Prior Informed Consent (PIC Not listed.	<u>C)</u>	<u>(649/2012/E</u>	<u>U)</u>					
Persistent Organic Pollutan Not listed.	<u>ts</u>	<u>(1021/2019/</u>	<u>EU)</u>					
Seveso Directive								
This product is not controlled	ur	der the Seve	eso Directive					
National regulations								
<u>Germany</u>								
Hazard class for water (WGK)	:	2						
<u>Switzerland</u>								
	÷	Exempt.						
International regulations Chemical Weapon Convention Not listed.	<u>on</u>	List Schedu	<u>iles I, II & III</u>	<u>Chemicals</u>				
Montreal Protocol								
Not listed.								
			ala Dallutar					
Stockholm Convention on Per Not listed.	ers	sistent Orga	nic Pollutan	<u>IS</u>				
Rotterdam Convention on Pr	<u>io</u>	<u>r Informed C</u>	Consent (PIC	<u>.</u>				
Not listed.								
UNECE Aarhus Protocol on F	20	Ps and Hea	vy Metals					
Not listed.								
Inventory list								
Australia		All compone	onts are lister	or exempted.				
Canada		•		or exempted.				
China		•		or exempted.				
Eurasian Economic Union				entory: Not de				
Japan	:): Not determin				
New Zealand	:	-		or exempted.				
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SECTION	15:	Regulatory	information
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Philippines	1	All components are listed or exempted.
Republic of Korea	:	All components are listed or exempted.
Taiwan	:	🕅 components are listed or exempted.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States of America	:	Not determined.
Viet Nam	:	Not determined.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

SECTION 16: Other information

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	Calculation method

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

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

Full text of abbreviated H statements

H 302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 2	ACUTE TOXICITY - Category 2	
Acute Tox. 3	ACUTE TOXICITY - Category 3	
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	
Asp. Tox. 1	ASPIRATION HAZARD - Category 1	
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B	
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A	
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3	

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.