# SAFETY DATA SHEET

**Q8 Auto DCT** 



SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: Q8 Auto DCT
Material uses	: Lubricating oil for automotive transmissions
<b>1.2 Relevant identified uses</b> Not applicable.	of the substance or mixture and uses advised against
1.3 Details of the supplier of	the safety data sheet
Manufacturer / Distributor	: Kuwait Petroleum Companies in the Benelux Company Office: Brusselstraat 59, B-2018, Antwerp Contactaddress: Petroleumkaai 7, B-2020, Antwerp Tel. +32 3 247 38 11, Fax +32 3 216 03 42
e-mail address of person responsible for this SDS	: SDSinfo@Q8.com, communication preferably in English only.
1.4 Emergency telephone nu	imber
Europe	: +44 (0) 1235 239 670
Global (English only)	: +44 (0) 1865 407 333
SECTION 2: Hazards	identification
2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to	Regulation (EC) No. 1272/2008 [CLP/GHS]
The product is classified as Aquatic Chronic 3, H412	hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	: None.
Ingredients of unknown ecotoxicity	: None.
Classification according to	Directive 1999/45/EC [DPD]
The product is classified as	dangerous according to Directive 1999/45/EC and its amendments.
Classification	: R52/53
Environmental hazards	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
See Section 16 for the full tex	t of the R phrases or H statements declared above.
See Section 11 for more deta	iled information on health effects and symptoms.

2.2 Label elements Signal word	: No signal w	vord.			
Hazard statements <u>Precautionary statements</u>	: H412 - Har	mful to aquatic life with lo	ong lasting effects.		
General	P102 - Kee	nd label before use. p out of reach of children edical advice is needed, l		er or label at hand.	
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<b>SECTION 2: Hazards</b>	SECTION 2: Hazards identification			
Prevention	1	P273 - Avoid release to the environment.		
Response	:	Not applicable.		
Storage	:	Not applicable.		
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.		
Supplemental label elements	:	Contains C14-18 alpha-olefin epoxide, reaction products with boric acid, Ethanol, 2, 2'-iminobis-, N-tallow alkyl derivs., monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid, dodecyl methacrylate and monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid. May produce an allergic reaction.		
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				
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.		
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.		
Other hazards which do not result in classification	:	Defatting to the skin.		

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

3.2 Mixtures	: Mixture				
			Clas	sification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	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	≥25 - <50	Not classified.	Not classified.	[2]
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	REACH #: 01-2119474889-13 EC: 276-738-4 CAS: 72623-87-1 Index: 649-483-00-5	≥10 - <25	Not classified.	Asp. Tox. 1, H304	[1] [2]
Distillates (petroleum), hydrotreated light paraffinic	REACH #: 01-2119487077-29 EC: 265-158-7 CAS: 64742-55-8 Index: 649-468-00-3	≥5 - <10	Xn; R65	Asp. Tox. 1, H304	[1] [2]
bis(nonylphenyl)amine	REACH #: 01-2119488911-28 EC: 253-249-4 CAS: 36878-20-3	≥1 - <3	R53	Aquatic Chronic 4, H413	[1]
Alkylimidazoline diphenylamine	- EC: 204-539-4 CAS: 122-39-4 Index: 612-026-00-5	≥1 - <3 ≥0.2 - <0.3	Not classified. T; R23/24/25 R33 N; R50/53	Eye Irrit. 2, H319 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331	[1] [1] [2]
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SECTION 3: Composition/information on ingredients					
SECTION 3: Con	nposition/informa	tion on ingre	aients		
				STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid	EC: 211-708-6 CAS: 688-84-6 Index: 607-134-00-4	≥0.1 - <0.3	Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317 STOT SE 3, H335 Aquatic Chronic 3, H412	[1]
dodecyl methacrylate	EC: 205-570-6 CAS: 142-90-5 Index: 607-247-00-9	≥0.2 - <0.3	Xi; R36/37/38 R43 N; R50/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1]
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid	EC: 219-835-9 CAS: 2549-53-3 Index: 607-134-00-4	≥0.1 - <0.3	Xi; R36/37/38	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 STOT SE 3, H335	[1]
Ethanol, 2,2'-iminobis-, N-tallow alkyl derivs.	EC: 263-177-5 CAS: 61791-44-4	≥0.1 - <0.3	Xn; R22 C; R34 R43 N; R50	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1C, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400	[1]
C14-18 alpha-olefin epoxide, reaction products with boric acid	-	≥0.1 - <0.3	R43	Skin Sens. 1B, H317	[1]
			See Section 16 for the full text of the R-phrases declared above.	See Section 16 for the full text of the H statements declared above.	

The mineral oils in the product contain < 3% DMSO extract (IP 346).

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 meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

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

### 4.1 Description of first aid measures

- Eye contact
- : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

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# SECTION 4: First aid measures

Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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

4.2 Most important symp	btoms and effects, both acute and delayed
Potential acute health e	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.
Over-exposure signs/s	<u>ymptoms</u>
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 imr	nediate medical attention and special treatment needed
Notes to physician	<ul> <li>In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.</li> </ul>

## Specific treatments : No specific treatment.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , 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

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# **SECTION 5: Firefighting measures**

: 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.
: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
: 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.
: 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	tective 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 specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and materials for	containment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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# **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.

#### 7.3 Specific end use(s) Recommendations

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
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Lijst Grenswaarden / Valeurs Limites (Belgium, 11/2011). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	Lijst Grenswaarden / Valeurs Limites (Belgium, 11/2011). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
Distillates (petroleum), hydrotreated light paraffinic	Lijst Grenswaarden / Valeurs Limites (Belgium, 11/2011). TWA: 5 mg/m <sup>3</sup> 8 hours. Form: mist STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: mist
diphenylamine	Lijst Grenswaarden / Valeurs Limites (Belgium, 11/2011). TWA: 10 mg/m <sup>3</sup> 8 hours.
procedures atmosphere of the venti protective e the followin the assess limit values atmosphere of exposure (Workplace	act contains ingredients with exposure limits, personal, workplace e or biological monitoring may be required to determine the effectiveness lation or other control measures and/or the necessity to use respiratory equipment. Reference should be made to monitoring standards, such as g: European Standard EN 689 (Workplace atmospheres - Guidance for ment of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace es - Guide for the application and use of procedures for the assessment e to chemical and biological agents) European Standard EN 482 e atmospheres - General requirements for the performance of procedures asurement of chemical agents) Reference to national guidance
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## **SECTION 8: Exposure controls/personal protection**

documents for methods for the determination of hazardous substances will also be required.

### **DNELs/DMELs**

No DNELs/DMELs available.

#### **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	ures	
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 indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: Nitrile gloves.
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	:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. 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**

## 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid. [Oily liquid.]
Appearance	: Clear.
Color	: Red.
Odor	: Hydrocarbon.
Odor threshold	: Not available.

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# SECTION 9: Physical and chemical properties

рН	1	7
Melting point/freezing point	1	<-42°C
Initial boiling point and boiling range	:	>300°C
Flash point	1	Open cup: >120°C [ASTM D92.]
Evaporation rate	:	Not available.
Flammability (solid, gas)	1	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	<0.01 kPa [room temperature]
Vapor density	1	Not available.
Relative density	:	0.85
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	>300°C
Decomposition temperature	:	>300°C
Viscosity (40°C)	1	33.7 cSt
Viscosity (100°C)	1	6.9 cSt
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.

### 9.2 Other information

No additional information.

<b>SECTION 10: Stabilit</b>	ty 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 toxicological effects Acute toxicity

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
Distillates (petroleum), hydrotreated light paraffinic	LD50 Dermal	Rabbit - Male, Female	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
diphenylamine	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	1120 mg/kg	-

## Acute toxicity estimates

Route	ATE value	
	41152.3 mg/kg	
Dermal	123456.8 mg/kg	
Inhalation (dusts and mists)	205.8 mg/l	

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Distillates (petroleum), hydrotreated light paraffinic	Skin - Erythema/Eschar	Rabbit	0.17	72 hours	7 days
	Skin - Edema	Rabbit	0	72 hours	7 days
	Eyes - Iris lesion	Rabbit	0	48 hours	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.33	48 hours	72 hours
dodecyl methacrylate	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

**Conclusion/Summary** : Not available.

## Sensitization

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

#### **Conclusion/Summary** : Not available.

**Mutagenicity** 

Product/ingredient name	Test	Experiment	Result
Distillates (petroleum), hydrotreated light paraffinic	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo	Negative
		Subject: Mammalian-Animal Cell: Somatic	

## **Conclusion/Summary** : Not available.

#### **Carcinogenicity**

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

**Conclusion/Summary** : Not available.

**Reproductive toxicity** 

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# **SECTION 11: Toxicological information**

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

### **Conclusion/Summary** : Not available.

**Teratogenicity** 

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

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid	Category 3	Not applicable.	Respiratory tract irritation
dodecyl methacrylate	Category 3	Not applicable.	Respiratory tract irritation
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid	Category 3	Not applicable.	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
diphenylamine	Category 2	Not determined	Not determined

#### Aspiration hazard

Product/ingredient name	Result
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil- based	ASPIRATION HAZARD - Category 1
Distillates (petroleum), hydrotreated light paraffinic	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.

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

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## **SECTION 11: Toxicological information**

Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Detential deleved offecte	Not available

Potential delayed effects : Not available.

## Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Distillates (petroleum),	Sub-chronic NOAEL Oral	Rat - Male,	≥2000 mg/kg	13 weeks; 5
hydrotreated light paraffinic		Female	105	days per week
	Sub-acute LOAEL Oral	Rat - Male	125 mg/kg	13 weeks; 5
	Sub-acute NOAEL Inhalation Dusts and mists	Rat - Male	>980 mg/m³	hours per day 4 weeks; 5 days per week
Conclusion/Summary	: Not available.			
General	: No known significant effects or critical hazards.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Teratogenicity	: No known significant effects or critical hazards.			
Developmental effects	: No known significant effects or critical hazards.			
Fertility effects	: No known significant effects	or critical hazards.		

**Other information** 

: 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
diphenylamine	Acute EC50 2.17 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute EC50 0.31 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3790 µg/l Fresh water Chronic NOEC 0.37 mg/l Fresh water	Fish - Pimephales promelas Algae - Pseudokirchneriella subcapitata - Exponential growth phase	96 hours 72 hours

Conclusion/Summary

: Not available.

## 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	OECD 301B	49 % - 28 days	-	-

Conclusion/Summary : No

: Not available.

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# **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based Distillates (petroleum),	-	-	Inherent Inherent
hydrotreated light paraffinic			

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	>4	-	high
Distillates (petroleum), hydrotreated light paraffinic	>3	-	low
diphenylamine	3.5	151.356124843	low
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid	4.95	37	low
monoalkyl or monoaryl or monoalkyaryl esters of methacrylic acid	7.66	-	high

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

12.5 Results of PBT and	vPvB assessment
PBT	: Not applicable.
vPvB	: Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

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

## **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation				
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils				
Packaging					
Methods of disposal	<ul> <li>The generation of waste should packaging should be recycled. when recycling is not feasible.</li> </ul>				

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## SECTION 13: Disposal considerations

**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	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.
Additional information	-	-	-	-

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: 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. **Other EU regulations Europe inventory** : Not determined. **Seveso II Directive** This product is not controlled under the Seveso II Directive. Hazard class for water : 2 Appendix No. 4 (WGK) **International regulations** Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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SECTION 15: Regu	ulatory information
Not listed.	
	on Persistent Organic Pollutants
Not listed.	
Rotterdam Convention of	on Prior Inform Consent (PIC)
Not listed.	
UNECE Aarhus Protocol	on POPs and Heavy Metals
Not listed.	
International lists	
National inventory	
Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
<b>Republic of Korea</b>	: Not determined.
Taiwan	: Not determined.
United States	: Not determined.
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
-	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	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	
Full text of abbreviated H : H290		May be corrosive	e to metals.	
statements	H301	Toxic if swallowed.		
	H302	Harmful if swallo	wed.	
	(oral)			
	H304	May be fatal if sw	vallowed and enters ai	rways.
	H311	Toxic in contact	with skin.	
	H314	Causes severe s	kin burns and eye dar	nage.
	H315	Causes skin irrita	ation.	-
	H317	May cause an al	lergic skin reaction.	
	H319	Causes serious	eve irritation.	
	H331	Toxic if inhaled.	,	
	H335	May cause respi	ratory irritation.	
	H373			prolonged or repeated exposure.
	H400	Very toxic to aqu	5 5	
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SECTION 16: Other information			
	<ul> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> <li>H413 May cause long lasting harmful effects to aquatic life.</li> </ul>		
Full text of classifications [CLP/GHS]	: Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 3, H311 Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 3, H412 Aquatic Chronic 4, H413 Aquatic Chro		
Full text of abbreviated R phrases	<ul> <li>R23/24/25- Toxic by inhalation, in contact with skin and if swallowed.</li> <li>R22- Harmful if swallowed.</li> <li>R65- Harmful: may cause lung damage if swallowed.</li> <li>R34- Causes burns.</li> <li>R36/37/38- Irritating to eyes, respiratory system and skin.</li> <li>R43- May cause sensitization by skin contact.</li> <li>R33- Danger of cumulative effects.</li> <li>R50- Very toxic to aquatic organisms.</li> <li>R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</li> <li>R53- May cause long-term adverse effects in the aquatic environment.</li> </ul>		
Full text of classifications [DSD/DPD]	<ul> <li>T - Toxic</li> <li>C - Corrosive</li> <li>Xn - Harmful</li> <li>Xi - Irritant</li> <li>N - Dangerous for the environment</li> </ul>		
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Prepared by	: Kuwait Petroleum Research & Technology B.V., The Netherlands		
Notice to reader			

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.