# **SAFETY DATA SHEET**

Q8 Ruysdael SG



SECTION 1: Identific undertaking	cation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: Q8 Ruysdael SG
Viscosity or Type	: Lithium Grease. NLGI 2.5
Material uses	: grease
<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	f 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	umber
Europe	: +44 (0) 1235 239 670 CARECHEM24
Global (English only)	: +44 (0) 1865 407 333
SECTION 2: Hazards	s identification
2.1 Classification of the sub	stance or mixture
Product definition	: Mixture
Classification according to	Regulation (EC) No. 1272/2008 [CLP/GHS]
•	hazardous according to Regulation (EC) 1272/2008 as amended.
Aquatic Chronic 3, H412	
Ingredients of unknown toxicity	: None.
Ingredients of unknown ecotoxicity	: None.
Classification according to	Directive 1999/45/EC [DPD]
· · · · · · · · · · · · · · · · · · ·	a 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	xt of the R phrases or H statements declared above.
See Section 11 for more deta	ailed 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.

General : Not applicable.

Date of issue/Date of revision

**Precautionary statements** 

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<b>SECTION 2: Hazards</b>	SECTION 2: Hazards identification			
Prevention	: 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	: Not applicable.			
Special packaging requirem	nts			
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					
			Class	<b>Classification</b>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре	
Naphthenic acids, zinc salts	EC: 234-409-2 CAS: 12001-85-3	≥3 - <5	Xi; R36/38 N; R51/53	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 2, H411	[1]	
zinc oxide	EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥0.1 - <0.1	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[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.

#### Туре

[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

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

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

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

4.1 Description of first aid measures	4.1	Descri	ption	of first	aid	measures
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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.
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. 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

#### Potential acute health effects

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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 im	nediate 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.

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# **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
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 thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, 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.

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### **SECTION 6: Accidental release measures**

6.4 Reference to other<br/>sections: See Section 1 for emergency contact information.<br/>See Section 8 for information on appropriate personal protective equipment.<br/>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.

#### 7.3 Specific end use(s)

Recommendations: Not available.Industrial sector specific: Not available.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**

No exposure limit value known.

If this product contains ingredients with exposure limits, personal, workplace **Recommended monitoring** 1 atmosphere or biological monitoring may be required to determine the effectiveness procedures of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment 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**

No DNELs/DMELs available.

#### **PNECs**

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## **SECTION 8: Exposure controls/personal protection**

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: < 1 hour (breakthrough time): nitrile rubber 0.17 mm.
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**

Date of issue/Date of revision	: 14-01-2015 Date of previous issue	: No previous validation	Version : 1	6/12
Flash point	: Open cup: >200°C [ASTM D92.]			
Initial boiling point and boiling range	: >300°C			
Melting point/freezing point	: Not available.			
рН	: Not available.			
Odor threshold	: Not available.			
Odor	: Hydrocarbon.			
Color	: Brown.			
Appearance	: Thick, oily liquid.			
Physical state	: Liquid. [grease]			
<u>Appearance</u>				
9.1 Information on basic physic	cal and chemical properties			

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# SECTION 9: Physical and chemical properties

Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits	Not available.	
Relative density	<1	
Solubility(ies)	Insoluble in the following materials: cold water and	hot water.
Partition coefficient: n-octanol/ water	Not available.	
Auto-ignition temperature	>350°C	
Decomposition temperature	>300°C	
Viscosity (40°C)	Not available.	
Explosive properties	Not applicable.	
Oxidizing properties	Not applicable.	

#### 9.2 Other information

No additional information.

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 toxicological effects

#### Acute toxicity

	Product/ingredient name	Result	Species	Dose	Exposure
Ν	laphthenic acids, zinc salts	LD50 Oral	Rat	4920 mg/kg	-

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

Not available.

Irritation/Corrosion

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# SECTION 11: Toxicological information

<b>SECTION 11: Toxicol</b>	ogical information				
Product/ingredient name	Result	Species	Score	Exposure	Observation
Naphthenic acids, zinc salts	Eyes - Moderate irritant	Rabbit	-	100 millionama	-
	Skin - Mild irritant	Rabbit	_	milligrams 0.5 Mililiters	_
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
zinc oxide	Eyes - Mild irritant	Rabbit	_	milligrams 24 hours 500	_
				milligrams 24 hours 500	
	Skin - Mild irritant	Rabbit	-	milligrams	-
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
<b>Carcinogenicity</b>					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
<b>Conclusion/Summary</b>	: Not available.				
Teratogenicity					
<b>Conclusion/Summary</b>	: 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.					
Information on the likely routes of exposure	: Not available.				
Potential acute health effects					
Eye contact	: No known significant effects	or critical hazar	rds.		
Inhalation	: No known significant effects	or critical hazar	rds.		
Skin contact	: Defatting to the skin. May c	ause skin dryne	ss and irr	itation.	
Ingestion	: No known significant effects	or critical hazar	rds.		
Symptoms related to the physical	sical, chemical and toxicolog	ical characteris	stics		
Eye contact	: No specific data.				
Inhalation	: No specific data.				
Skin contact	: Adverse symptoms may inc	lude the followin	a.		
	irritation dryness		.9.		
	cracking				
Ingestion	: No specific data.				
Delayed and immediate effect	ts and also chronic effects fro	om short and lo	ong term	<u>exposure</u>	
Short term exposure					
Potential immediate effects	: Not available.				
Potential delayed effects	: Not available.				

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## **SECTION 11: Toxicological information**

Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
<b>Conclusion/Summary</b>	: 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.
<b>Developmental effects</b>	: 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
Naphthenic acids, zinc salts	Acute EC50 4.6 ppm Fresh water Acute LC50 1.53 ppm Fresh water	Daphnia - Daphnia magna Fish - Lepomis macrochirus	48 hours 96 hours
zinc oxide	Acute EC50 0.042 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.017 mg/l Fresh water	Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata - Exponential growth phase	96 hours 72 hours

**Conclusion/Summary** : Not available.

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Q8 Ruysdael SG	-	-	Not readily

#### 12.3 Bioaccumulative potential

Not available.

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.

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### SECTION 12: Ecological information

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 nonrecyclable 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 08 99*	wastes not otherwise specified
Packaging	
Methods of disposal	<ul> <li>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.</li> </ul>
<ul> <li>Special precautions</li> <li>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 ring Empty containers or liners may retain some product residues. Avoid disper</li> </ul>	

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
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.

spilled material and runoff and contact with soil, waterways, drains and sewers.

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### SECTION 14: Transport information

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** : All components are listed or exempted. **Seveso II Directive** This product is not controlled under the Seveso II Directive. Hazard class for water : 1 Appendix No. 4 (WGK) International regulations Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed. Montreal Protocol (Annexes A, B, C, E) Not listed. Stockholm Convention on Persistent Organic Pollutants Not listed. **Rotterdam Convention 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 : All components are listed or exempted. China Not determined. : Not determined. Japan Malaysia : Not determined. **New Zealand** Not determined. 5 **Philippines** : Not determined. **Republic of Korea** : Not determined. Taiwan Not determined. **United States** : All components are listed or exempted. **15.2 Chemical Safety** : This product contains substances for which Chemical Safety Assessments are still Assessment required.

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### **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 statements	<ul> <li>H319 Causes serious</li> <li>H400 Very toxic to aquina</li> <li>H410 Very toxic to aquina</li> <li>H411 Toxic to aquina</li> </ul>	<ul> <li>H319 Causes serious eye irritation.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting effects.</li> <li>H411 Toxic to aquatic life with long lasting effects.</li> </ul>	
Full text of classifications [CLP/GHS]	Aquatic Chronic 2, H411	AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2	
Full text of abbreviated R phrases	R50/53- Very toxic to aqu the aquatic environment. R51/53- Toxic to aquatic aquatic environment.	R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the	
Full text of classifications [DSD/DPD]	: Xi - Irritant N - Dangerous for the en	Xi - Irritant N - Dangerous for the environment	
Date of printing	: 14-01-2015	14-01-2015	
Date of issue/ Date of revision	: 14-01-2015		
Date of previous issue	: No previous validation	No previous validation	
Version	: 1		
Prepared by	: Kuwait Petroleum Resear	Kuwait Petroleum Research & Technology B.V., The Netherlands	
Notice to reader			

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.