SAFETY DATA SHEET

Q8 Sinan



	cation of the substance/mixture and of the company/
undertaking	
1.1 Product identifier	
Product name	: Q8 Sinan
Material uses	: Lubricating oil for gas engines
1.2 Relevant identified uses 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	sidentification
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 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 3, H412	hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	: None.
Ingredients of unknown ecotoxicity	: None.
	Directive 1999/45/EC [DPD] dangerous according to Directive 1999/45/EC and its amendments.
Classification	: R43 R52/53
Human health hazards	: May cause sensitization by skin contact.

Environmental hazards : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

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SECTION 2: Hazards identification			
Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	 H317 - May cause an allergic skin reaction. H373 - May cause damage to organs through prolonged or repeated exposure if swallowed. H412 - Harmful to aquatic life with long lasting effects. 	
Precautionary statements			
General	1	Not applicable.	
Prevention	:	P280 - Wear protective gloves. P273 - Avoid release to the environment. P260 - Do not breathe vapor.	
Response	:	P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P333 + P313 - If skin irritation or rash occurs, seek medical advice/attention.	
Storage	4	Not applicable.	
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Hazardous ingredients	1	N-1-naphthylaniline	
Supplemental label elements	;	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			
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	:	None known.	

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			- 10	
Product/ingredient name	Identifiers	%	67/548/EEC	<u>sification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
N-1-naphthylaniline	REACH #: 01-2119488704-27 EC: 201-983-0 CAS: 90-30-2	≥1 - <2.5	Xn; R22 R43 N; R50/53	Acute Tox. 4, H302 Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1,	[1]
Date of issue/Date of revision	on : 30-10-2015	Date of previous issue	: No previous va	Aquatic Chronic 1,	

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SECTION 3: Composition/information on ingredients

	U			
			H410	
		for the full text of the R-phrases	See Section 16 for the full text of the H statements declared above.	

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

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

SECTION 4: First aid measures

easures
: 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 following exposure or if feeling unwell.
: 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 following exposure or if feeling unwell. 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.
: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
: 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 following exposure or if feeling unwell. 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.
: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute hea	Ith effects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Date of issue/Date of revision

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SECTION 4: First aid	measures
Over-exposure signs/symp	toms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
4.3 Indication of any immedia	ate medical attention and special treatment needed
Notes to physician	: 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.
Specific treatments	: No specific treatment.
SECTION 5: Firefight	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen 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: Acciden	tal release measures
6.1 Personal precautions, pr	otective equipment and emergency procedures
For non-emergency	: No action shall be taken involving any personal risk or without suitable training.

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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 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.	
Date of issue/Date of revision		: 30-10-2015 Date of previous issue : No previous validation Version : 1 4/12	

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SECTION 6: Accidental release measures

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.

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). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 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.

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SECTION 8: Exposure controls/personal protection

Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness 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

No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	 If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Individual protection meas	<u>ures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. 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.

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SECTION 8: Exposure controls/personal protection

Environmental exposure	: Emissions from ventilation or work process equipment should be checked to
controls	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

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9.1 Information on basic physica	l a	nd chemical properties
<u>Appearance</u>		
Physical state	:	Liquid. [Oily liquid.]
Appearance	:	Not available.
Color	:	Amber. Orange.
Odor	:	Characteristic.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point/freezing point	:	<-10°C
Initial boiling point and boiling range	:	>300°C
Flash point	:	Open cup: >220°C [ASTM D92.]
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not applicable.
Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	<0.01 kPa [room temperature]
Vapor density	:	Not available.
Relative density	:	1.05
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	>400°C
Decomposition temperature	:	250°C
Viscosity (40°C)	:	190 cSt
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stabilit	y 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

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SECTION 10: Stability and reactivity

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
N-1-naphthylaniline	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 1625 mg/kg	-
Conclusion/Summary	: Not available.			·

Acute toxicity estimates

	Route	ATE value
C	Dral	67708.3 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
N-1-naphthylaniline	Skin - Mild irritant	Rabbit	-	-	-
Conclusion/Summary	: Not available.				
Sensitization					
Conclusion/Summary	: Not available.				
Mutagenicity					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				
Specific target organ toxicit	<u>y (repeated exposure)</u>				

Product/ingredient name	Category	Route of exposure	Target organs
N-1-naphthylaniline	Category 2	Not determined	Not determined

nformation on the likely outes of exposure	1	Not available.
Potential acute health effects	<u>s</u>	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	No known significant effects or critical hazards.
Skin contact	:	May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
<u>Symptoms related to the phy</u>	OIL	
Eye contact		No specific data.
	:	
Eye contact	:	No specific data.
Eye contact Inhalation		No specific data. No specific data. Adverse symptoms may include the following: irritation

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SECTION 11: Toxicological information

	ts and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	<u>ects</u>
Not available.	
Conclusion/Summary	: Not available.
General	: May cause damage to organs through prolonged or repeated exposure if swallowed Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
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	
Conclusion/Summary	: Not available.
12.2 Persistence and degrad	lability
Conclusion/Summary	: Not available.
12.3 Bioaccumulative poten	tial
Not available.	
12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and vPv	'B assessment
РВТ	: Not applicable.
vPvB	: Not applicable.
12.6 Other adverse effects	: No known significant effects or critical hazards.

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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	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number	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.

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SECTION 15: Regulatory information

15.1 Safety, health and env	onmental regulations/legislation specific for the substance or mixture					
EU Regulation (EC) No. 1	7/2006 (REACH)					
Annex XIV - List of subs	nces subject to authorization					
<u>Annex XIV</u>						
None of the components are listed.						
Substances of very high concern						
None of the components	re listed.					
Other EU regulations						
Europe inventory	: All components are listed or exempted.					
Seveso II Directive						
This product is not contro	d under the Seveso II Directive.					
Hazard class for water : 2 Appendix No. 4 (WGK)						
International regulations						
Chemical Weapon Conve	ion List Schedules I, II & III Chemicals					
Not listed.						
Montreal Protocol (Anne)	s A. B. C. E)					
Not listed.						
Cteckholm Convention o	Development Ormania Dellutente					
	Persistent Organic Pollutants					
Not listed.						
Rotterdam Convention or	Prior Inform Consent (PIC)					
Not listed.						
UNECE Aarhus Protocol	POPs and Heavy Metals					
Not listed.						
International lists						
International lists National inventory						
Australia	All components are listed or exempted					
	: All components are listed or exempted.					
Canada	: All components are listed or exempted.					
China	: All components are listed or exempted.					
Japan	: All components are listed or exempted.					
Malaysia	Not determined.					
New Zealand	: All components are listed or exempted.					
Philippines	: All components are listed or exempted.					
Republic of Korea	: All components are listed or exempted.					
Taiwan	: Not determined.					
United States	: All components are listed or exempted.					
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are required.	e still				

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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SECTION 16: Other information			
Abbreviations and acronyms	 ATE = Acute Toxicity Estimate 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]

Classi	ication	Justification	
Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 3, H412		Calculation method Expert judgment Calculation method	
Full text of abbreviated H statements	H373 May cause dam H373 May cause dam (oral) swallowed. H400 Very toxic to aq H410 Very toxic to aq	Illergic skin reaction. hage to organs through prolonged or repeated exposure. hage to organs through prolonged or repeated exposure if	
Full text of classifications [CLP/GHS]	Aquatic Chronic 3, H412 Skin Sens. 1, H317 STOT RE 2, H373	ACUTE TOXICITY (oral) - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (oral) - Category 2	
Full text of abbreviated R phrases	R43- May cause sensitiza R50/53- Very toxic to aqu the aquatic environment.	 R22- Harmful if swallowed. R43- May cause sensitization by skin contact. R50/53- Very 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]	: Xn - Harmful N - Dangerous for the en	Xn - Harmful N - Dangerous for the environment	
- Training advice	: Ensure operatives are tra	Ensure operatives are trained to minimise exposures.	
Date of printing	: 30-10-2015		
Date of issue/ Date of revision	: 30-10-2015		
Date of previous issue	: No previous validation		
Version	: 1		
Prepared by	: Kuwait Petroleum Resear	rch & 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.