SAFETY DATA SHEET

Q8 Transformer Oil I



SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier	
Product name	: Q8 Transformer Oil I
Material uses	: Electrical insulating oil
EC number	: Not available.
CAS number	: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against Not applicable.

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 number

Europe	: +44 (0) 1235 239 670	CARECHEM24
Global (English only)	: +44 (0) 1865 407 333	10 miles

SECTION 2: Hazards identification

Product definition : Mono-constituent substance

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. Asp. Tox. 1, H304

Ingredients of unknown : None. toxicity

Ingredients of unknown : None.

ecotoxicity

Classification according to Directive 67/548/EEC [DSD]

2

Not classified.

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	
		•	

Hazard pictograms



Danger

Signal word Hazard statements

: H304 - May be fatal if swallowed and enters airways.

1/12

Q8 Transformer Oil I

SECTION 2: Hazards identification		
Precautionary stater	nents	
General	: Not applicable.	
Prevention	 Not applicable 	

Prevention	1	Not applicable.
Response	:	P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
Storage	:	P405 - Store locked up.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	Q8 Transformer Oil I
Supplemental label elements	1	Not applicable.
Special packaging requirem	en	<u>its</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	Not applicable.
2.3 Other hazards		
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	No. P: Not available. B: Not available. T: No.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not available.
Other hazards which do not result in classification	1	Defatting to the skin.

SECTION 3: Composition/information on ingredients

3.1 Substances	: Mono-constitu	lent substance			
			Classi		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Distillates (petroleum), hydrotreated light naphthenic	REACH #: 01-2119480375-34 EC: 265-156-6 CAS: 64742-53-6 Index: 649-466-00-2	90	Xn; R65	Asp. Tox. 1, H304	[A]
			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, are classified and contribute to the classification of the substance and hence require reporting in this section.

<u>Type</u>

[A] Constituent

[B] Impurity[C] Stabilizing additive

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

Q8 Transformer Oil I

SECTION 4: First aid measures

4.1 Description of first aid n	neasures
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	: Get medical attention immediately. Call a poison center or physician. 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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. 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 sy	mptoms and effects, both acute and delayed
Potential acute healt	h 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	: May be fatal if swallowed and enters airways.
Over-exposure signs	symptoms
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: Adverse symptoms may include the following: nausea or vomiting
4.3 Indication of any in	nmediate 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.

3/12

Q8 Transformer Oil I

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media	:	Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	:	Do not use water jet.
5.2 Special hazards arising f	ron	the substance or mixture
Hazards from the substance or mixture	:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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).
6.3 Methods and materials fo	r c	ontainment 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.
Date of issue/Date of revision		: 12-02-2015 Date of previous issue : No previous validation Version : 1 4/12

Q8 Transformer Oil I

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 swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. Store locked up. 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

Product/ingredient	name	Exposure limit values		
Distillates (petroleum), hydrotreated light naphthenic		Lijst Grenswaarden / Valeurs Limites (Belgium, 11/2011). TWA: 5 mg/m ³ 8 hours. Form: mist STEL: 10 mg/m ³ 15 minutes. Form: mist		
procedures atmosphere or b of the ventilation protective equip the following: En the assessment limit values and atmospheres - C of exposure to c (Workplace atmospheres)		ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory oment. Reference should be made to monitoring standards, such as suropean Standard EN 689 (Workplace atmospheres - Guidance for t of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be		
DNELs/DMELs				
No DNELs/DMELs available.				

PNECs

No PNECs available.

5/12

Q8 Transformer Oil I

2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborn contaminants.
Individual protection meas	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminated clothin 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 wit side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard shoul be worn at all times when handling chemical products if a risk assessment indicate this is necessary. Considering the parameters specified by the glove manufacture 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 produ 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 **Appearance Physical state** : Liquid. [Oily liquid.] **Appearance** : Clear. Color : Yellow [Light] Odor : Slight **Odor threshold** : Not available. pН : Not applicable. Melting point/freezing point : <-40°C : >300°C Initial boiling point and boiling range **Flash point** : Closed cup: >135°C [ASTM D93.] **Evaporation rate** : Not available. Flammability (solid, gas) : Not applicable. Date of issue/Date of revision : 12-02-2015 Date of previous issue Version :1 6/12 : No previous validation

Q8 Transformer Oil I

SECTION 9: Physical and chemical properties

Upper/lower flammability or explosive limits	:	Not available.
Vapor pressure	:	<0.0001 kPa [room temperature]
Vapor density	:	Not available.
Relative density	:	0.875
Solubility(ies)	:	Insoluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/ water	:	Not available.
Auto-ignition temperature	:	>250°C
Decomposition temperature	:	>300°C
Viscosity (40°C)	:	9 cSt
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
Distillates (petroleum), hydrotreated light naphthenic	LC50 Inhalation Dusts and mists	Rat	2180 mg/m ³	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
Conclusion/Summary	Not available.			
rritation/Corrosion				
Conclusion/Summary	: Not available.			
Sensitization				
Conclusion/Summary	: Not available.			
<u>lutagenicity</u>				
Conclusion/Summary	: Not available.			
Carcinogenicity				
Conclusion/Summary	: Not available.			
te of issue/Date of revision	: 12-02-2015 Date of previous is	sue : No pr	evious validation	lersion :1

Q8 Transformer Oil I

SECTION 11: Toxicological information

Reproductive toxicity Conclusion/Summary : Not available. Iteratogenicity Conclusion/Summary : Not available. Specific target organ toxicity (single exposure) Not available. Specific target organ toxicity (repeated exposure) Not available. Aspiration hazard Product/ingredient name Result Distillates (petroleum), hydrotreated light naphthenic ASPIRATION HAZARD - Category 1 Information on the likely : Not available. routes of exposure Eye contact : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards. Inhalation Eye contact : Defating to the skin. May cause skin dryness and irritation. Ingestion Ingestion : May be fatal if swallowed and enters airways. Symptoms rolated to the physical, chemical and toxicological characteristics Eye contact : No specific data. Skin contact : No specific data. Skin contact : Adverse symptoms may include the following: irritation dryness cracking Ingestion : Adverse symptoms may include the following: irritation dryness Carcinogenicity : Not av	SECTION 11: Toxico	logical information	
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Developmental effects : No known significant effects or critical hazards.	Mutagenicity	: No known significant effects or c	ritical hazards.
	Teratogenicity	: No known significant effects or c	ritical hazards.
		: No known significant effects or c	ritical hazards.
	Fertility effects	: No known significant effects or c	ritical hazards.

Q8 Transformer Oil I

SECTION 11: Toxicological information

Other information	: Not available.
SECTION 12: Ecolog	gical information
12.1 Toxicity Conclusion/Summary	: Not available.
12.2 Persistence and degrad	lability
Conclusion/Summary	: Not available.
12.3 Bioaccumulative poten Not available.	tial
12.4 Mobility in soil	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
12.5 Results of PBT and vPv	/B assessment
PBT	: No.
	P: Not available. B: Not available. T: No.
vPvB	: Not available.
	vP: Not available. vB: Not available.
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 wasto	· Vac

Hazardous waste : Yes. European waste catalogue (EWC)

Waste code	Waste designation				
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils				
Packaging					
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 				
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.				

Date of issue/Date of revision

Q8 Transformer Oil I

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.

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

SECTION 15: Regulatory information

: Not available.

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. 3 (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)				

Q8 Transformer Oil I

SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists			
National inventory			
Australia	: All components are listed or exempted.		
Canada	: All components are listed or exempted.		
China	: All components are listed or exempted.		
Japan	: Not determined.		
Malaysia	: All components are listed or exempted.		
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 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	
Asp. Tox. 1, H304		Calculation method	
Full text of abbreviated H statements	: H304 May be fatal if sv	wallowed and enters airways.	
Full text of classifications [CLP/GHS]	: Asp. Tox. 1, H304	ASPIRATION HAZARD - Category 1	
Full text of abbreviated R phrases	: R65- Harmful: may cause	R65- Harmful: may cause lung damage if swallowed.	
Full text of classifications [DSD/DPD]	: Xn - Harmful		
Date of printing	: 12-02-2015		
Date of issue/ Date of revision	: 12-02-2015		
Date of previous issue	: No previous validation		
Version	: 1		
Prepared by	: Kuwait Petroleum Resear	ch & Technology B.V., The Netherlands	
Notice to reader			

Q8 Transformer Oil I

SECTION 16: Other information

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.