SAFETY DATA SHEET

Q8 Rubens EM 2



SECTION 1: Identific undertaking	ation of the substance/mixture and of the company/
1.1 Product identifier	
Product name	: Q8 Rubens EM 2
Viscosity or Type	: NLGI 2
Material uses	: grease
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 nu	Imber
Europe	: +44 (0) 1235 239 670 CARECHEM24
Global (English only)	: +44 (0) 1865 407 333
SECTION 2: Hazards	dentification
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 not classified Not classified.	as 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 not classified	as dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Not classified.
See Section 16 for the full tex	t 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	: No known significant effects or critical hazards.

Precautionary statements	
General	: Not applicable.
Prevention	: Not applicable.

Response : Not applicable.

Date of issue/Date of revision

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Storage	: Not applicable.
Disposal	: Not applicable.
Supplemental label elements	: Safety data sheet available on request.
Special packaging requirem	<u>ents</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

2.2 Mixtures

3.2 Mixtures	: Mixture				
			Class	sification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Lithium grease based on mineral oil with additives.	-	≥90	Not classified.	Not classified.	[2]

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.

Type

[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.
Inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
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.

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SECTION 4: First aid measures				
Ingestion	: Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposition person is conscious, give small quantities of water to drink. Do not induce vomiti unless directed to do so by medical personnel. Get medical attention if symptom occur.			
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training.			
4.2 Most important sympton	is and effects, both acute and delayed			
Potential acute health effect	<u>ts</u>			
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/symp	<u>toms</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 immedi	ate medical attention and special treatment needed			
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large			
	quantities have been ingested or inhaled.			
Specific treatments	: No specific treatment.			
SECTION 5: Firefigh	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.			
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide			
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.			

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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. 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 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. 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.
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).
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.

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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	
Lithium grease based on mineral oil with additives.		EU OEL (Europe). TWA: 5 mg/m³, (oil Mist)	
Recommended monitoring procedures	atmosphere or of the ventilation protective equi- the following: the assessment limit values and atmospheres - of exposure to (Workplace at for the measure	duct contains ingredients with exposure limits, personal, workplace re or biological monitoring may be required to determine the effectiveness tilation or other control measures and/or the necessity to use respiratory equipment. Reference should be made to monitoring standards, such as ng: European Standard EN 689 (Workplace atmospheres - Guidance for sment of exposure by inhalation to chemical agents for comparison with and measurement strategy) European Standard EN 14042 (Workplace res - Guide for the application and use of procedures for the assessment re to chemical and biological agents) European Standard EN 482 ce atmospheres - General requirements for the performance of procedures assurement of chemical agents) Reference to national guidance is for methods for the determination of hazardous substances will also be	
DNELs/DMELs No DNELs/DMELs available.			
PNECs			
No PNECs available.			
2 Exposure controls			
Appropriate engineering controls	: Good general contaminants	ventilation should be sufficient to control worker exposure to airborne	
Individual protection measu	res		
Hygiene measures	before eating, Appropriate te Wash contam	forearms and face thoroughly after handling chemical products, smoking and using the lavatory and at the end of the working period. echniques should be used to remove potentially contaminated clothing inated clothing before reusing. Ensure that eyewash stations and rs are close to the workstation location.	
Eye/face protection	assessment in gases or dust	ar complying with an approved standard should be used when a risk ndicates this is necessary to avoid exposure to liquid splashes, mists, s. If contact is possible, the following protection should be worn, sessment indicates a higher degree of protection: safety glasses with	
Skin protection			
Hand protection	be worn at all this is necess	istant, impervious gloves complying with an approved standard should times when handling chemical products if a risk assessment indicates ary. Wear suitable gloves tested to EN374. Recommended: < 1 rough time): nitrile rubber 0.17 mm.	
Body protection	being perform	ective equipment for the body should be selected based on the task ned and the risks involved and should be approved by a specialist ng this product.	
Other skin protection	selected base	botwear and any additional skin protection measures should be ad on the task being performed and the risks involved and should be a specialist before handling this product.	

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SECTION 8: Exposure controls/personal protection

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	1	Liquid. [grease]		
Appearance	1	Thick, oily liquid.		
Color	1	Yellow [Light]		
Odor	:	Hydrocarbon.		
Odor threshold	1	Not available.		
рН	1	7		
Melting point/freezing point	1	Not available.		
Initial boiling point and boiling range	:	>250°C		
Flash point	:	Open cup: >150°C [ASTM D92.]		
Evaporation rate	:	Not applicable.		
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	:	Not available.		
Decomposition temperature	:	Not available.		
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	1	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.

Q8 Rubens EM 2 SECTION 10: Stability and reactivity					
				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: Toxico	SECTION 11: Toxicological information				
11.1 Information on toxicolog	jical effects				
Acute toxicity					
Conclusion/Summary	: Not available.				
Acute toxicity estimates					
Not available.					
Irritation/Corrosion					
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 toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

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.				

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SECTION 11: Toxicological information

Delayed and immediate effec	s and also chronic effects from short and long term exposure
<u>Short term exposure</u>	
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 effe	<u>cts</u>
Not available.	
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		
Conclusion/Summary	: Not available.	
12.2 Persistence and degrad	dability	
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 vP	vB assessment	
PBT	: Not applicable.	
vPvB	: Not applicable.	
12.6 Other adverse effects	: No known significant effects or critical hazards.	
SECTION 13: Dispos	sal 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

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SECTION 13: Disposal considerations

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 08 99*	wastes not otherwise specified
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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	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 e	nvironmental regulations/legislation specific for the substance or mixture	
EU Regulation (EC) No.	<u>1907/2006 (REACH)</u>	
Annex XIV - List of sul	ostances subject to authorization	
Annex XIV		
None of the componer	its are listed.	
Substances of very h	igh concern	
None of the componer	its are listed.	
Other EU regulations		
Europe inventory	: All components are listed or exempted.	
Seveso II Directive		
This product is not contr	olled under the Seveso II Directive.	
Hazard class for water (WGK)	: 1 Appendix No. 4	
International regulation	<u>s</u>	
Chemical Weapon Conv	vention List Schedules I, II & III Chemicals	
Not listed.		
Montreal Protocol (Ann	exes A, B, C, E)	
Not listed.		
Stockholm Convention	on Persistent Organic Pollutants	
Not listed.	on rensistent organic ronutants	
	on Prior Inform Consent (PIC)	
Not listed.		
UNECE Aarhus Protoco	I 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.	
Republic of Korea	: Not determined.	
Taiwan	: Not determined.	
United States	: Not determined.	
15.2 Chemical Safety Assessment	: This product contains substances for which Chemical Safety Assessments are s required.	till

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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SECTION 16: Other information			
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	
Not classified.			
Full text of abbreviated H statements	: Not applicable.		
Full text of classifications [CLP/GHS]	: Not applicable.		
Full text of abbreviated R phrases	: Not applicable.		
Full text of classifications [DSD/DPD]	: Not applicable.		
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Version	: 1.02		
Prepared by	: Kuwait Petroleum Resear	ch & Technology B.V., The Netherlands	
Notice to reader			

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.