## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Belgium

# SAFETY DATA SHEET

Q8 Holst AP 46



<b>SECTION 1: Identific</b>	ation of the substance/mixture and of the company/
undertaking	
1.1 Product identifier	
Product name	: Q8 Holst AP 46
Viscosity or Type	: ISO VG 46
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Material uses	: Lubricating oil for hydraulic equipment
1.3 Details of the supplier of	the safety data sheet
Supplier	: Kuwait Petroleum Companies in the Benelux Company Office: Brusselstraat 59, 2018 Antwerp, Belgium Contactaddress: Petroleumkaai 7, 2020 Antwerp, Belgium Tel. +32 3 247 38 11, Fax +32 3 216 03 42
Manufacturer / Distributor	<ul> <li>Kuwait Petroleum Belgium N.V./S.A.</li> <li>Petroleumkaai 7</li> <li>B-2020 Antwerp</li> <li>Belgium</li> <li>Italy</li> </ul>
e-mail address of person	
responsible for this SDS	: SDSinfo@Q8.com, communication preferably in English only.
PCN Information contact	: PCNinfo@Q8.com, communication preferably in English only.
1.4 Emergency telephone nu	mber
Europe	: +44 (0) 1235 239 670 CARECHEM24
Global (English only)	: +44 (0) 1865 407 333
National advisory body/Poi	son Center
Belgium	: Poison Centre : +32 (0)70 245 245
<b>SECTION 2: Hazards</b>	identification
2.1 Classification of the subs	stance or mixture
Product definition	: Mixture
Classification according to Not classified.	Regulation (EC) No. 1272/2008 [CLP/GHS]
The product is not classified a	as hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	: None.
Ingredients of unknown ecotoxicity	: None.
See Section 11 for more deta	iled 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	
Prevention	: Not applicable.
Response	: Not applicable.

Date of issue/Date of revision

: 27-05-2024 Date of previous issue

: 21-02-2024

## SECTION 2: Hazards identification

	-	
Storage	1	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	Contains N-1-naphthylaniline, Hydrocarbons, terpene processing by-products, N,N- bis(2-ethylhexyl)-((1,2,4-triazol-1-yl)methyl)amine and (4-nonylphenoxy)acetic acid. May produce an allergic reaction. Safety data sheet available on request.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.
Special packaging requirem	en	<u>its</u>
Containers to be fitted with child-resistant fastenings	-	Not applicable.
Tactile warning of danger	:	Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	1	Prolonged or repeated contact may dry skin and cause irritation.

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

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Severely refined mineral oil (C15 - C50) * - Not classified.	-	≥90	Not classified.	-	[2]
N-1-naphthylaniline	REACH #: 01-2119488704-27 EC: 201-983-0 CAS: 90-30-2	≤0.3	Acute Tox. 4, H302 Skin Sens. 1B, H317 STOT RE 2, H373 (blood system) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1625 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]
Hydrocarbons, terpene processing by-products	REACH #: 01-2119980606-28 EC: 273-309-3 CAS: 68956-56-9	≤0.3	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	-	[1]
N,N-bis(2-ethylhexyl)-( (1,2,4-triazol-1-yl)methyl) amine	REACH #: 01-2119930450-49 01-0000015116-78 EC: 401-280-0 CAS: 91273-04-0 Index: 613-072-00-9	<0.1	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
Date of issue/Date of revision	: 27-05-2024 Date	e of previous is:	sue : 21-02-2024	Version :1.0	08 2/1

## Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Belgium

Q8 Holst AP 46

## SECTION 3: Composition/information on ingredients

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(4-nonylphenoxy)acetic acid REACH #: 01-211998 EC: 221-4 CAS: 3118	32392-31 86-2	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]

Contains one or more of the following:

CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25

CAS: 64742-65-0, EC: 265-169-7, EU REACH: 01-2119471299-27

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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.
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. High pressure skin injections are serious medical emergencies. Injury will not appear serious at first. Within a few hours, tissue will become swollen, discolored and extremely painful.
Ingestion	: Wash out mouth with water. Remove dentures if any. 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.

### <u>Over-exposure signs/symptoms</u>

Eye contact : No specific data.

Date of issue/Date of revision

Q8 Holst AP 46			
SECTION 4: First aid	l measures		
Inhalation	: No specific data.		
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking		
Ingestion	: No specific data.		
4.3 Indication of any immed	ate medical attention and special treatment needed		
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>		
Specific treatments	: No specific treatment.		
<b>SECTION 5: Firefigh</b>	ting 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.		
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide		
5.3 Advice for firefighters			
Special protective actions for fire-fighters	<ul> <li>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.</li> </ul>		
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 specialized 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 for containment and cleaning up

### SECTION 6: Accidental release measures

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. Dispose of via a licensed waste disposal contractor. 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.
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. See Section 10 for incompatible materials before handling or use.

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
Severely refined mineral oil (C15 - C50) * - Not classified.	<b>EU OEL (Europe)</b> TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.

### **Biological exposure indices**

No exposure indices known.

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

Recommended monitoring procedures	: 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**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
N-1-naphthylaniline	DNEL	Long term Oral	0.008 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Dermal	0.008 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	0.015 mg/	General	Systemic
		Inhalation	m <sup>3</sup>	population	
	DNEL	Long term Dermal	0.02 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	0.08 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Oral	2 mg/kg bw/day	General population	Systemic
	DNEL	Short term Dermal	3.33 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	6.67 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	33 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	44 mg/m³	Workers	Systemic
Hydrocarbons, terpene processing by-products	DNEL	Long term Oral	0.3 mg/kg bw/day	General population	Systemic
by-products	DNEL	Long term Dermal	0.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.7 mg/m <sup>3</sup>	General	Systemic
	DNEL	Long term Dermal	0.8 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.9 mg/m <sup>3</sup>	Workers	Systemic
N,N-bis(2-ethylhexyl)-((1,2,4-triazol- 1-yl)methyl)amine	DNEL	Long term Oral	0.25 mg/ kg bw/day	General population	Systemic
, yijinouryijanino	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General	Systemic
	DNEL	Long term Inhalation	0.43 mg/m <sup>3</sup>		Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m <sup>3</sup>	Workers	Systemic
(4-nonylphenoxy)acetic acid	DNEL	Short term Inhalation	4.3 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Short term Inhalation	17.6 mg/m³		Systemic
	DNEL	Long term Oral	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic
	DNEL	Long term	0.43 mg/m <sup>3</sup>		Systemic

SECTION 8: Exposure controls/personal protection						
	DNEL	Inhalation Long term Dermal	0.5 mg/kg bw/day	population Workers	Systemic	
	DNEL	Long term Inhalation	1.76 mg/m <sup>3</sup>	Workers	Systemic	

### **PNECs**

No PNECs available.

8.2 Exposure controls	
Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Individual protection meas	<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 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. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm. Provide employee with skin care programmes.
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	<ul> <li>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.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. 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**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	: Liquid. [Oily liquid.]
Appearance	: 🕅ear
Color	: Yellow [Light]
Odor	: 🗭 haracteristic
Odor threshold	: Not available.
Melting point/freezing point	: Not applicable.

### **SECTION 9: Physical and chemical properties**

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Pour point	: <-18°C (<-0.4°F) [ASTM D 97]
Boiling point or initial boiling point and boiling range	: >300°C (>572°F)
Flammability	: Not applicable.
Lower and upper explosion limit	: Not available.
Flash point	: Open cup: >190°C (>374°F) [ASTM D 92]
Auto-ignition temperature	: >300°C (>572°F)
Decomposition temperature	: >300°C
рН	Not applicable.
Viscosity	: Kinematic (40°C (104°F)): 46 mm²/s (46 cSt) [ASTM D 445] Kinematic (100°C (212°F)): 6.7 mm²/s (6.7 cSt) [ASTM D 445]

#### **Solubility**

Media		Result
cold water hot water		Not soluble Not soluble
Solubility in water	:	Not available.
Partition coefficient n-octanol/ water (log Pow)	1	Not applicable.
Vapor pressure	:	<0.01 kPa (<0.075006 mm Hg)
Density	:	0.87 g/cm³ [15°C (59°F)] [ASTM D 4052]
Relative vapor density	:	Not available.
Explosive properties	:	Not applicable.
Oxidizing properties	:	Not applicable.
Particle characteristics		
Median particle size	:	Not applicable.

**Explosive properties** : Not applicable.

**Oxidizing properties** : Not applicable.

### 9.2.2 Other safety characteristics

Not applicable.

### **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.				
Date of issue/Date of revision		: 27-05-2024 Date of previous issue : 21-02-2024 Version : 1.08 8/16				

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name Result		Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.53 mg/l	4 hours
	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg >5000 mg/kg	-
N-1-naphthylaniline	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 1625 mg/kg	-
Hydrocarbons, terpene processing by-products	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

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

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Severely refined mineral oil (C15 - C50) * - Not classified.	N/A	N/A	N/A	N/A	5.53
N-1-naphthylaniline (4-nonylphenoxy)acetic acid	1625 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Severely refined mineral oil (C15 - C50) * - Not classified.	Eyes - Iris lesion	Rabbit	0	48 hours	72 hours
	Eyes - Redness of the conjunctivae	Rabbit	0.33	48 hours	72 hours
	Skin - Edema	Rabbit	0	72 hours	7 days
	Skin - Erythema/Eschar	Rabbit	0.17	72 hours	7 days
N-1-naphthylaniline	Skin - Mild irritant	Rabbit	-	4 hours 5 %	-
	Skin - Mild irritant	Rabbit	-	1008 hours 5	-
				% I	
	Skin - Mild irritant	Rabbit	-	50 %	-

**Conclusion/Summary** : Not available.

**Respiratory or skin sensitization** 

Product/ingredient name	Route of exposure	Species	Result
Severely refined mineral oil (C15 - C50) * - Not classified.	skin	Guinea pig	Not sensitizing

**Conclusion/Summary** : Not available.

#### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Severely refined mineral oil	474 Mammalian	Experiment: In vivo	Negative
(C15 - C50) * - Not	Erythrocyte	Subject: Mammalian-Animal	
classified.	Micronucleus Test	Cell: Somatic	

**Conclusion/Summary** : Not available.

**Carcinogenicity** 

### **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative - Dermal - TC	Mouse - Female	-	78 weeks

**Conclusion/Summary** : Not available.

### **Reproductive toxicity**

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative	Negative	Negative		Oral: 1000 mg/ kg	-

**Conclusion/Summary** : Not available.

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Negative - Dermal	Rat	2000 mg/kg	7 days per week

**Conclusion/Summary** : Not available.

Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
N-1-naphthylaniline	Category 2	-	blood system

### **Aspiration hazard**

Product/ingredient name	Result	
₩ydrocarbons, terpene processing by-products	ASPIRATION HAZARD - Category 1	

Information on the likely routes of exposure	: Not available.
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 phy	sical, chemical and toxicological characteristics
Eve contact	: No specific data.

Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation dryness cracking
Ingestion	: No specific data.

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

### **SECTION 11: Toxicological information**

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 effects**

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Sub-acute LOAEL Oral	Rat - Male	125 mg/kg	13 weeks; 5 hours per day
	Sub-chronic NOAEL Oral	Rat - Male, Female	≥2000 mg/kg	13 weeks; 5 days per week
	Sub-acute NOAEL Inhalation Vapor	Rat - Male	>980 mg/m³	4 weeks; 5 days per week
Conclusion/Summary	: Not available.			
General	: Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis.			
Carcinogenicity	: No known significant effects or critical hazards.			
Mutagenicity	: No known significant effects or critical hazards.			
Reproductive toxicity	: No known significant effects	or critical hazards		

#### 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

**11.2.2 Other information** 

Not available.

### **SECTION 12: Ecological information**

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Severely refined mineral oil (C15 - C50) * - Not classified.	Acute NEL >100 mg/l Fresh water	Algae	72 hours
	Acute NEL >10000 mg/l Fresh water Acute NEL ≥100 mg/l Fresh water Chronic NEL 10 mg/l Fresh water	Daphnia - <i>Daphnia Magma</i> Fish - <i>Pimephales promelas</i> Daphnia - <i>Daphnia magna</i>	48 hours 96 hours 21 days

**Conclusion/Summary** 

: Not available.

#### **12.2 Persistence and degradability**

Product/ingredient name	Test	Result	Dose	Inoculum
₩ydrocarbons, terpene processing by-products	OECD 301D 301D Ready Biodegradability - Closed Bottle Test	80 % - Readily - 28 days	-	-

**Conclusion/Summary** : Not available.

Date of issue/Date of revision

SECTION 12: Ecological information				
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability	
Severely refined mineral oil (C15 - C50) * - Not classified. Hydrocarbons, terpene	-	-	Inherent	
processing by-products	-	-	readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
N-1-naphthylaniline N,N-bis(2-ethylhexyl)-( (1,2,4-triazol-1-yl)methyl) amine	4.28 5.3	1424 -	High High

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

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

#### 13.1 Waste treatment methods

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

### European waste catalogue (EWC)

Waste code	Waste designation					
13 01 10*	mineral based non-chlorinated hydraulic oils					
Packaging						
Methods of disposal	<ul> <li>The generation of waste should be a packaging should be recycled. Incin when recycling is not feasible.</li> </ul>					
Special precautions	: This material and its container must or liners may retain some product re runoff and contact with soil, waterwa	sidues. Avoid disper	rsal of spilled n			
Date of issue/Date of revision	: 27-05-2024 Date of previous issue	: 21-02-2024	Version	: 1.08	12/16	

### **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID 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.

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 Maritime transport in : Not available. bulk according to IMO instruments

### 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.

#### Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name		%	<b>Designation</b> [Usa	age]				
-nonylphenol, branched			<0.01	46				
Labeling	:	Not applicab	le.					
Other EU regulations								
Industrial emissions (integrated pollution prevention and control) - Air	:	Not listed						
Industrial emissions (integrated pollution prevention and control) - Water	:	Not listed						
Explosive precursors	:	Not applicab	le.					
Ozone depleting substance	es	<u>(1005/2009/E</u>	<u>U)</u>					
Not listed.								
Prior Informed Consent (PI	<u>C)</u>	<u>(649/2012/EU</u>	<u>(r</u>					
Date of issue/Date of revision		: 27-05-2024	Date of previo	us issue : 21-	02-2024	Version	:1.08	13/16

### **SECTION 15: Regulatory information**

#### Not listed.

Persistent Organic Pollutants (1021/2019/EU) Not listed.

### Seveso Directive

This product is not controlled under the Seveso Directive.

### National regulations

<u>Germany</u>

Hazard class for water

(WGK)

Switzerland VOC content

: Exempt.

: 1

### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### Inventory list

Australia	:	All components are listed or exempted.
Canada	:	At least one component is not listed.
China	:	All components are listed or exempted.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined. Japan inventory (ISHL): Not determined.
New Zealand	:	All components are listed or exempted.
Philippines	:	All components are listed or exempted.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	1	Not determined.
<b>United States of America</b>	:	All components are active or exempted.
Viet Nam	;	Not determined.
15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety Assessments are still required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

Indicates informati	ion that has changed from previously issued version.
Abbreviations and acronyms	: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
	ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
	ASTM = American Society for Testing and Materials
	ATE = Acute Toxicity Estimate
	BCF = Bioconcentration Factor
	CAS = Chemical Abstracts Service
	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
	DIN = German Institute for Standardization
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EC = European Commission
	EC50 = Half maximal effective concentration
	EN = European Standard (Norm)
	EUH statement = CLP-specific Hazard statement
	GHS - Globally Harmonized System of Classification and Labeling of Chemicals
	IATA = International Air Transport Association
	IBC = Intermediate Bulk Container
	IC50 = Half maximal inhibitory concentration
	IMDG = International Maritime Dangerous Goods
	IMO = International Maritime Organisation ISO = International Organization for Standardization
	LC50 = Median lethal concentration
	LD50 = Median lethal dose
	LOAEL / LOAEC = Lowest Observed Adverse Effect Level / Concentration
	MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
	N/A = Not available
	NOAEL / NOAEC = No Observed Adverse Effect Level / Concentration
	NOEL / NOEC = No Observed Effect Level / Concentration
	OECD = Organisation for Economic Co-operation and Development OEL = Occupational Exposure Limit
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
	Regulation [Regulation (EC) No. 1907/2006]
	RID = The Regulations concerning the International Carriage of Dangerous Goods
	by Rail
	SDS = Safety Data Sheet
	SVHC = Substances of Very High Concern
	STEL = Short Term Exposure Limit
	TLV = Threshold Limit Value
	TWA = Time Weighted Average
	UFI = Unique Formula Identifier
	UN = United Nations
	VOC = Volatile Organic Compound
	vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extract according to IP 346 method, and are therefore not classified as carcinogen according to Regulation (EC) No 1272/2008, note L.

Note L: The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346 "Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method", Institute of Petroleum, London. This note applies only to certain complex oil-derived substances in Part 3.

### Full text of abbreviated H statements

Date of issue/Date of revision

#### SECTION 16: Other information Flammable liquid and vapor. H226 Harmful if swallowed. H302 H304 May be fatal if swallowed and enters airways. Causes severe skin burns and eye damage. H314 Causes skin irritation. H315 May cause an allergic skin reaction. H317 Causes serious eve damage. H318 H319 Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure. H373 H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. H411

### Full text of classifications [CLP/GHS]

Acute Tox. 4 Aquatic Acute 1	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Acute 1 Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Training advice	: Ensure operatives are trained to minimise exposures.
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revision	
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Version	: 1.08
Prepared by	: Kuwait Petroleum Research & Technology B.V., The Netherlands
Notice to reader	

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.