SAFETY DATA SHEET

Q8 van Gogh EP 46



	: Q8 van Gogh EP 46	
Viscosity or Type	: ISO VG 46	
1.2 Relevant identified uses of	the substance or mixture and uses advised	d against
Material uses	: Lubricating oil for industrial systems	
1.3 Details of the supplier of the	ne safety data sheet	
Supplier	: Q8 Danmark A/S Arne Jacobsens Allé 17 2300 København S, Danmark Tel.: +45 7012 4545 Email: produktteknik@Q8.dk Web: www.Q8.dk	
Manufacturer / Distributor	: Kuwait Petroleum Belgium N.V./S.A. / Petroleumkaai 7 B-2020 Antwerp Belgium	Q8Oils Italia S.r.l. Via Volpedo 2 15050 Castellar Guidobono (AL) Italy
e-mail address of person		
	: SDSinfo@Q8.com, communication preferab	
PCN Information contact	: PCNinfo@Q8.com, communication preferat	oly in English only.
1.4 Emergency telephone num	ber	
Denmark	: +45 8988 2286 CAR	ECHEM24
Europe	: +44 (0) 1235 239 670	1000 M
Global (English only)	: +44 (0) 1865 407 333	
National advisory body/Poise	on Center	
Denmark	: Bispebjerg Hospital - poison line : +45 8212	1212
SECTION 2: Hazards i	dentification	
2.1 Classification of the substa	ance or mixture	
Product definition	: Mixture	
Classification according to R Not classified.	egulation (EC) No. 1272/2008 [CLP/GHS]	
The product is not classified 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 detaile	ed information on health effects and symptoms	
2.2 Label elements		
Signal word	: No signal word.	
-	No known significant effects or critical hazar	ds.
Precautionary statements	-	

Date of issue/Date of revision

SECTION 2: Hazards identification

Prevention : Not applicable. Response : Not applicable. Storage : Not applicable. Disposal : Not applicable. Supplemental label elements : Contains N-1-naphthylaniline 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 requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. 2.3 Other hazards : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : Prolonged or repeated contact may dry skin and cause irritation.			
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Containers to be fitted with child-resistant fastenings 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.0 ther hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	:	Not applicable.
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Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIIIThis mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	Tactile warning of danger	:	Not applicable.
for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIIIvPvB.Other hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	2.3 Other hazards		
	for PBT or vPvB according to Regulation (EC) No.	:	•
	Other hazards which do not result in classification	:	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	<0.25	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]
(4-nonylphenoxy)acetic acid	REACH #: 01-2119982392-31 EC: 221-486-2 CAS: 3115-49-9	<0.1	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]

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SECTION 3: Composition/information on ingredients

* 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	ו of	first a	id n	neas	ures
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Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	:	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

: 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 immediate medical attention and special treatment needed Notes to physician 2 Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. **Specific treatments** : No specific treatment.

Over-exposure signs/symptoms

Eye contact

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	iron	ו 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	:	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 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
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. : Not available.

Industrial sector specific solutions

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.	TWA 8 hours: 5 mg/m ³ . Form: Mist.
	STEL 15 minutes: 10 mg/m ³ . Form: Mist.

Biological exposure indices

No exposure indices known.

: Reference should be made to monitoring standards, such as the following: Recommended monitoring European Standard EN 689 (Workplace atmospheres - Guidance for the procedures 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/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.008 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.015 mg/ m ³	General population	Systemic
	DNEL	Long term Dermal	0.02 mg/ kg bw/day	Workers	Systemic
e of issue/Date of revision : 2	9-11-2024	Date of previous issue	: 04-01-2	2023	/ersion : 1.05

SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure co	•				
	DNEL	Long term Inhalation	0.08 mg/m ³	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/m³́	General population	Systemic
	DNEL	Short term Inhalation	44 mg/m ³	Workers	Systemic
(4-nonylphenoxy)acetic acid	DNEL	Short term Inhalation	4.3 mg/m ³	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 Inhalation	0.43 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	0.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1.76 mg/m ³	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	ures	
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. 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	:	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.

SECTION 8: Exposure controls/personal protection

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. Gas and combination filter cartridges should comply with the European standard EN14387.
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

Appearance	
Physical state	: Liquid. [Oily liquid.]
Appearance	: 🗭 ear
Color	: Yellow [Light]
Odor	: 🗭 haracteristic
Odor threshold	: Not available.
Melting point/freezing point	: Not applicable.
Pour point	: -12°C (10.4°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	: Øpen cup: >220°C (>428°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)): 6.9 mm²/s (6.9 cSt) [ASTM D 445]
Solubility	
Media	Result
cold water	Not soluble
hot water	Not soluble
Solubility in water	: Not available.
Partition coefficient n-octanol/ water (log Pow)	: Not applicable.

Vapor pressure	:	<0.01 kPa (<0.075006 mm Hg)
Density	:	0.87 g/cm ³ [15°C (59°F)] [ASTM D 4052]

- Density: 0.87 g/cm³ [15°C (59°)Relative vapor density: Not available.Explosive properties: Not applicable.
- Oxidizing properties : Not applicable.
- Particle characteristics
- Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

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SECTION 9: Physical and chemical properties

- Explosive properties
- Not applicable.Not applicable.
- Oxidizing properties

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 : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions 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** : Under normal conditions of storage and use, hazardous decomposition products should not be produced. decomposition products

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	Rat	>5000 mg/kg >5000 mg/kg	-
N-1-naphthylaniline	LD50 Dermal LD50 Oral	Rabbit Rat	>5000 mg/kg 1625 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	-

	Skin - Mild irritant	t	Rabbit	-	% I 50 %	-
Conclusion/Summary Respiratory or skin sensiti	: Not available. zation					
Product/ingredient name	Route of exposure	Spe	ecies		R	tesult
Severely refined mineral oil (C15 - C50) * - Not classified.	skin	Guinea pig		Not	sensitizing	
(C15 - C50) * - Not classified. Conclusion/Summary	: Not available.					

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

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

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact

: No known significant effects or critical hazards.

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SECTION 11: Toxicological information

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.

Delayed and immediate effects 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	ects	

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 F Vapor		Rat - Male	>980 mg/m ³	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	: 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

SECTION 12: Ecological information

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.	· ·	•			

Conclusion/Summary

12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Severely refined mineral oil (C15 - C50) * - Not classified.	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
N-1-naphthylaniline	4.28	1424	High

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

<u>Product</u>			
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 catalog	European waste catalogue (EWC)		

SECTION 13: Disposal considerations

-			
Waste code	Waste designation		
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating 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. 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 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.

14.6 Special precautions for user

: **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 <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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	%	Designation [Usage]
∦ -nonylphenol, branched	<0.01	46

Labeling : Not applicable.

Other EU regulations

SECTION 15: Regulatory information

Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
Explosive precursors Ozone depleting substance Not listed.	: Not applicable. es (1005/2009/EU)
Prior Informed Consent (PI Not listed.	<u>C) (649/2012/EU)</u>
Persistent Organic Polluta Not listed.	<u>nts (1021/2019/EU)</u>
Seveso Directive This product is not controlled National regulations Denmark	I under the Seveso Directive.
Product registration number	: 4214584
Fire class	: 📈-1
MAL-code	: 00-1
Protection based on MAL	: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:
	General: Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.
	In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.
	MAL-code: 00-1 Application: When spraying in existing* spray booths, if the operator is outside the spray zone.
	- Arm protectors must be worn.
	During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.
	- Full mask with combined filter, coveralls and hood must be worn.

SECTION 15: Regulatory information

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Germany Hazard class for water : 1 (WGK)

Switzerland

VOC content : Exempt.

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	1	Al components are listed or exempted.
China	1	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	:	Al components are listed or exempted.
Philippines	:	Al components are listed or exempted.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States of America	1	All components are active or exempted.
Viet Nam	:	Not determined.
15.2 Chemical Safety Assessment	:	Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

Date of issue/Date of revision

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Indicates informat	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

⊮ 302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
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.
Date of printing	: 29-11-2024
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revision	
Date of previous issue	e : 04-01-2023
Version	: 1.05
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.