# SAFETY DATA SHEET

# **Q8 Dynobear 5**



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

1.1 Product identifier

Product name : Q8 Dynobear 5 Viscosity or Type : ISO VG 5

UFI : 30J0-C06J-R007-TGX4

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Lubricating oil for industrial systems

1.3 Details of the supplier of the 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 15050 Castellar Guidobono (AL)

Q80ils Italia S.r.l.

Via Volpedo 2

CARECHEM24

Belgium

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 number

**Denmark** : +45 8988 2286

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

**National advisory body/Poison Center** 

Denmark : Bispebjerg Hospital - poison line : +45 8212 1212

#### SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

**Product definition**: Mixture

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

ASPIRATION HAZARD Category 1 H304

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown**: None.

toxicity

Ingredients of unknown : None.

ecotoxicity

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

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### **SECTION 2: Hazards identification**

**Hazard pictograms** 

Signal word : Danger

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

**Precautionary statements** 

Prevention : Not applicable.

Response : P301 + P310, P331 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor. Do NOT induce vomiting.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional,

national and international regulations.

**Hazardous ingredients** 

Supplemental label

elements

: Severely refined mineral oil (C15 - C50) \* - H304

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

**Special packaging requirements** 

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

: 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) * - H304	-	≥90	Asp. Tox. 1, H304	-	[1] [2]
1,2,4-trimethylbenzene	REACH #: 01-2119472135-42 EC: 202-436-9 CAS: 95-63-6 Index: 601-043-00-3	≤0.1	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	ATE [Inhalation (vapours)] = 18 mg/	[1] [2]
naphthalene	REACH #: 01-2119561346-37	<0.1	Flam. Sol. 2, H228 Acute Tox. 4, H302	ATE [Oral] = 490 mg/kg	[1] [2]

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

- · · · · · · · · · · · · · · · · · · ·	9		
EC: 202-049-5	Skin Irrit. 2, H315	M [Acute] = 1	
CAS: 91-20-3	Eye Irrit. 2, H319	M [Chronic] = 1	
Index: 601-052-00-2	Carc. 2, H351		
	Aquatic Acute 1, H400		
	Aquatic Chronic 1,		
	H410		
	See Section 16 for		
	the full text of the H		
	statements declared		
	above.		

Contains one or more of the following:

CAS: 1335203-17-2, EC: 934-956-3, EU REACH: 01-2119827000-58 CAS: 72623-87-1, EC: 276-738-4, EU REACH: 01-2119474889-13

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.

#### Type

- [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.

: Get medical attention immediately. Call a poison center or physician. Wash out Ingestion

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. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### 4.2 Most important symptoms and effects, both acute and delayed

#### Over-exposure signs/symptoms

**Eye contact** : No specific data. Inhalation : No specific data.

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### **SECTION 4: First aid measures**

Skin contact : Adverse symptoms may include the following:

> irritation dryness cracking

Ingestion Adverse symptoms may include the following:

nausea or vomiting

#### 4.3 Indication of any immediate medical attention and special treatment needed

: Treat symptomatically. Contact poison treatment specialist immediately if large Notes to physician

quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

# SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).

**Unsuitable extinguishing** 

: Do not use water jet.

media

#### 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

: 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

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### **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. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. 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). Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

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** 

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

Product/ingredient name	Exposure limit values
Severely refined mineral oil (C15 - C50) * - H304	EU OEL (Europe) TWA 8 hours: 5 mg/m³. Form: Mist. STEL 15 minutes: 10 mg/m³. Form: Mist.
2,6-di-tert-butyl-p-cresol	Working Environment Authority (Denmark, 2/2023) TWA 8 hours: 10 mg/m³. STEL 15 minutes: 20 mg/m³.
1,2,4-trimethylbenzene	Working Environment Authority (Denmark, 2/2023) [trimethylbenzen]  TWA 8 hours: 20 ppm.  TWA 8 hours: 100 mg/m³.  STEL 15 minutes: 200 mg/m³.  STEL 15 minutes: 40 ppm.  EU OEL (Europe, 1/2022)  TWA 8 hours: 20 ppm.  TWA 8 hours: 100 mg/m³.
naphthalene	Working Environment Authority (Denmark, 2/2023) K. TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³. STEL 15 minutes: 100 mg/m³. STEL 15 minutes: 20 ppm. EU OEL (Europe, 1/2022) TWA 8 hours: 10 ppm. TWA 8 hours: 50 mg/m³.

#### **Biological exposure indices**

No exposure indices known.

# 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
7,2,4-trimethylbenzene	DNEL	Long term Oral	15 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	29.4 mg/m <sup>3</sup>	General	Local
		Inhalation		population	
	DNEL	Short term	29.4 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Short term	100 mg/m³	Workers	Local
		Inhalation			
	DNEL	Short term	100 mg/m³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	16171 mg/	Workers	Systemic
			kg bw/day		
	DNEL	Long term	29.4 mg/m <sup>3</sup>		Local
		Inhalation		population	
	DNEL	Long term	29.4 mg/m <sup>3</sup>		Systemic
		Inhalation		population	
	DNEL	Long term	100 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	100 mg/m³	Workers	Systemic
		Inhalation		_	
	DNEL	Long term Dermal	9512 mg/	General	Systemic

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

naphthalene	DNEL	Long term Dermal	3.57 mg/	population Workers	Systemic
			kg bw/day		
	DNEL	Long term	25 mg/m <sup>3</sup>	Workers	Local
		Inhalation			
	DNEL	Long term	25 mg/m <sup>3</sup>	Workers	Systemic
		Inhalation	Ü		

#### **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 measures**

Hygiene measures
Eye/face protection

- : Do not ingest. If swallowed then seek immediate medical assistance.
- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

# **Skin protection**

**Hand protection** 

- : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Wear suitable gloves tested to EN374. Recommended: < 1 hour (breakthrough time): nitrile rubber 0.17 mm. 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.

#### **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 : ☑ea

Color : Colorless to light yellow

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## SECTION 9: Physical and chemical properties

: Characteristic **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

: >200°C (>392°F)

**Flammability** Lower and upper explosion : Not applicable.

: Not available.

limit

Flash point

: Open cup: >130°C (>266°F) [ASTM D 92]

**Auto-ignition temperature Decomposition temperature**  : >200°C (>392°F)

pН

: Not applicable.

: >200°C

**Viscosity** 

Kinematic (40°C (104°F)): 5 mm<sup>2</sup>/s (5 cSt) [ASTM D 445]

Kinematic (100°C (212°F)): 1.7 mm<sup>2</sup>/s (1.7 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.

: <0.01 kPa (<0.075006 mm Hg) Vapor pressure

: 0.82 g/cm3 [15°C (59°F)] [ASTM D 4052] **Density** 

Relative vapor density : Not available. : Not applicable. **Explosive properties 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

**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.

: Reactive or incompatible with the following materials: 10.5 Incompatible materials

Strong oxidizing materials

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# **SECTION 10: Stability and reactivity**

10.6 Hazardous decomposition products

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

# **SECTION 11: Toxicological information**

### 11.1 Information on 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) * - H304	LC50 Inhalation Dusts and mists	Rat - Male, Female	5.53 mg/l	4 hours
	LD50 Dermal LD50 Oral		>5000 mg/kg >5000 mg/kg	-
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
naphthalene	LD50 Oral LD50 Dermal	Rat Rabbit	5 g/kg >20 g/kg	_
Tiapritialerie	LD50 Oral	Rat	490 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) * - H304 1,2,4-trimethylbenzene naphthalene	N/A	N/A	N/A	N/A	5.53
	5000	N/A	N/A	18	N/A
	490	N/A	N/A	N/A	N/A

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Severely refined mineral oil (C15 - C50) * - H304	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
naphthalene	Skin - Mild irritant	Rabbit	-	495 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 0.05 MI	-

**Conclusion/Summary**: Not available.

#### Respiratory or skin sensitization

Product/ingredient name	Route of exposure	Species	Result
Severely refined mineral oil (C15 - C50) * - H304	skin	Guinea pig	Not sensitizing

**Conclusion/Summary**: Not available.

### **Mutagenicity**

Product/ingredient name	Test	Experiment	Result
Severely refined mineral oil (C15 - C50) * - H304	474 Mammalian Erythrocyte Micronucleus Test	Experiment: In vivo Subject: Mammalian-Animal Cell: Somatic	Negative

Conclusion/Summary

: Not available.

**Carcinogenicity** 

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# **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - H304	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) * - H304	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) * - H304	Negative - Dermal	Rat	2000 mg/kg	7 days per week

Conclusion/Summary : Not available.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
7,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Not available.

### **Aspiration hazard**

Product/ingredient name	Result
Severely refined mineral oil (C15 - C50) * - H304 1,2,4-trimethylbenzene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

Eye contactInhalationNo known significant effects or critical hazards.No known significant effects or critical hazards.

**Skin contact**: Defatting to the skin. May cause skin dryness and irritation.

**Ingestion** : May be fatal if swallowed and enters airways.

#### 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**: Adverse symptoms may include the following:

nausea or vomiting

# <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u>

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# **SECTION 11: Toxicological information**

**Potential immediate** 

effects

: Not available.

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
Severely refined mineral oil (C15 - C50) * - H304	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) * - H304	Acute NEL >100 mg/l Fresh water	Algae	72 hours
,	Acute NEL >10000 mg/l Fresh water	Daphnia - <i>Daphnia Magma</i>	48 hours
	Acute NEL ≥100 mg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NEL 10 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
1,2,4-trimethylbenzene	Acute LC50 17000 μg/l Marine water	Crustaceans - Cancer magister - Zoea	48 hours
	Acute LC50 22.4 mg/l Fresh water	Fish - <i>Tilapia zillii</i>	96 hours
naphthalene	Acute EC50 1.6 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 2350 μg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 213 μg/l Fresh water	Fish - Melanotaenia fluviatilis - Larvae	96 hours
	Chronic NOEC 0.5 mg/l Marine water	Crustaceans - <i>Uca pugnax</i> - Adult	3 weeks
	Chronic NOEC 1.5 mg/l Fresh water	Fish - Oreochromis mossambicus	60 days

: Not available. **Conclusion/Summary** 

#### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

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

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## **SECTION 12: Ecological information**

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Severely refined mineral oil (C15 - C50) * - H304	-	-	Inherent

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
√,2,4-trimethylbenzene naphthalene	3.63	243	Low
	3.4	36.5 to 168	Low

#### 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 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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# **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 bulk according to IMO instruments

: Not available.

## 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	%	Designation [Usage]
Q8 Dynobear 5	≥90	3

Labeling : Not applicable.

Other EU regulations

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Air

**Industrial emissions** : Not listed

(integrated pollution prevention and control) -

Water

**Explosive precursors** : Not applicable. Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

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# **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**

**Denmark** 

**Product registration** 

number

: PR-nr: 2190056

Fire class : IV-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.

**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.

Restrictions on use : Not to be u

Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.

**Germany** 

Hazard class for water

(WGK)

: 1

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## SECTION 15: Regulatory information

**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** 

: Not determined. **Australia** : Not determined. Canada China : Not determined.

**Eurasian Economic Union:** Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined. **Japan** 

Japan inventory (ISHL): Not determined.

**New Zealand** : Not determined. : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. **Taiwan Thailand** : Not determined. : Not determined. **Turkey United States of America** : Not determined. : Not determined. **Viet Nam** 

15.2 Chemical Safety

**Assessment** 

: This product contains substances for which Chemical Safety Assessments are still

required.

### SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and** 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

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### **SECTION 16: Other information**

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]

Classification	Justification
Asp. Tox. 1, H304	Calculation method

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

<b>⊬</b> 226	Flammable liquid and vapor.
H228	Flammable solid.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

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

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### **SECTION 16: Other information**

Cute Tox. 4 ACUTE TOXICITY - Category 4

Aquatic Acute 1 AQUATIC HAZARD (ACUTE) - Category 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 Carc. 2 CARCINOGENICITY - Category 2

Eye Irrit. 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3 Flam. Sol. 2 FLAMMABLE SOLIDS - Category 2

Skin Irrit. 2 SKIN CORROSION/IRRITATION - Category 2

STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

**Training advice** : Ensure operatives are trained to minimise exposures.

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#### **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.

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