# **SAFETY DATA SHEET**

# Q8 Formula Techno Eco 0W-30



| 1.1 Product identifier                            |       |   |            |  |
|---|-------|---|------------|--|
| Product name                                      | :     | Q8 Formula Techno Eco 0W-30   |            |  |
| Viscosity or Type                                 | :     | SAE 0W-30   |            |  |
| 1.2 Relevant identified uses                      | of    | he substance or mixture and uses ac   | lvise      | d against  |
| Material uses                                     | - 1   | Lubricating oil for automotive engines  |            |  |
| 1.3 Details of the supplier of                    | f the | e safety data sheet   |            |  |
| Supplier  | :     | Q8 Danmark A/S<br>Arne Jacobsens Allé 7<br>2300 København S, Danmark<br>Tel.: +45 7012 4545<br>Email: produktteknik@Q8.dk<br>Web: www.Q8.dk |            |  |
| Manufacturer / Distributor                        | :     | Kuwait Petroleum Belgium N.V./S.A.<br>Petroleumkaai 7<br>B-2020 Antwerp<br>Belgium  | 1          | Q8Oils Italia S.r.I.<br>Via Volpedo 2<br>15050 Castellar Guidobono (AL)<br>Italy |
| e-mail address of person responsible for this SDS |       |   | <b>c</b> 1 |  |
| PCN Information contact                           |       | SDSinfo@Q8.com, communication pre<br>PCNinfo@Q8.com, communication pre  |            |  |
|   |       |   | loru       |  |
| 1.4 Emergency telephone nu                        | umt   | per   |            |  |
| Denmark   | :     | +45 8988 2286   | CAF        | RECHEM24   |
| Europe  | :     | +44 (0) 1235 239 670  |            | Marine T   |
| Global (English only)                             | :     | +44 (0) 1865 407 333  |            |  |
| National advisory body/Po                         | iso   | n Center  |            |  |
| Denmark   | :     | Bispebjerg Hospital - poison line : +45   | 8212       | 2 1212   |

## **SECTION 2: Hazards identification**

| 2.1 Classification of the su                | ibstance or mixture   |
|---|---|
| Product definition                          | : Mixture   |
| Classification according to Not classified. | to Regulation (EC) No. 1272/2008 [CLP/GHS]                        |
| The product is not classifie                | d as hazardous according to Regulation (EC) 1272/2008 as amended. |
| Ingredients of unknown<br>toxicity          | : None.   |
| Ingredients of unknown<br>ecotoxicity       | : None.   |
| See Section 11 for more de                  | etailed information on health effects and symptoms.               |
| 2.2 Label elements                          |   |
| Signal word                                 | : No signal word.   |
| Hazard statements                           | : No known significant effects or critical hazards.               |

| Date of issue/Date of revision | : 03-01-2023 | Date of previous issue | : 21-02-2022 |
|--------------------------------|--------------|------------------------|--------------|
|                                |              |                        |              |

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# **SECTION 2: Hazards identification**

| Precautionary statements  |     |  |
|---|-----|--|
| General   | :   | 103 - Read carefully and follow all instructions. P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. |
| Prevention  | 1   | Not applicable.  |
| Response  | 1   | Not applicable.  |
| Storage   | :   | Not applicable.  |
| Disposal  | 1   | Not applicable.  |
| Supplemental label elements   | :   | Contains C14-16-18 Alkyl Phenol and maleic anhydride. May produce an allergic reaction.<br>Safety data sheet available on request.                                   |
| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market and<br>use of certain dangerous<br>substances, mixtures and<br>articles | :   | Not applicable.  |
| Detergents - Regulation<br>(EC) No 648/2004   | :   | Not applicable.  |
| Special packaging requiren  | ner | <u>nts</u>   |
| Containers to be fitted<br>with child-resistant<br>fastenings   | :   | Not applicable.  |
| Tactile warning of danger   | :   | Not applicable.  |
| 2.3 Other hazards   |     |  |
| Product meets the criteria<br>for PBT or vPvB according<br>to Regulation (EC) No.<br>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.<br>Limits, M-factors<br>and ATEs | Туре    |
| Severely refined mineral oil<br>(C15 - C50) - H304                            | CAS: *   | ≥50 - ≤75        | Asp. Tox. 1, H304                                 | -   | [1] [2] |
| Dec-1-ene, homopolymer,<br>hydrogenated Dec-1-ene,<br>oligomers, hydrogenated | REACH #:<br>01-2119486452-34<br>EC: 500-183-1<br>CAS: 68037-01-4   | ≥10 - ≤25        | Asp. Tox. 1, H304                                 | -   | [1]     |
| C14-16-18 Alkyl Phenol  | REACH #:<br>01-2119498288-19<br>EC: 931-468-2<br>CAS: 1190625-94-5 | ≤3               | Skin Sens. 1B, H317<br>STOT RE 2, H373<br>(liver) | Skin Sens. 1, H317:<br>C ≥ 10%                  | [1]     |
| Calcium branched chain<br>alkyl phenate sulphide<br>(overbased)               | REACH #: Polymer   | ≤3               | Aquatic Chronic 4,<br>H413                        | -   | [1]     |
| maleic anhydride  | REACH #:   | <0.001           | Acute Tox. 4, H302                                | ATE [Oral] = 400                                | [1] [2] |
| Date of issue/Date of revision  | : 03-01-2023 Dat   | e of previous is | sue : 21-02-2022                                  | Version : 1.07                                  | 7 2/16  |

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

|  | 01-2119472428-31<br>EC: 203-571-6<br>CAS: 108-31-6<br>Index: 607-096-00-9 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Resp. Sens. 1, H334<br>Skin Sens. 1A, H317<br>STOT RE 1, H372<br>(inhalation)<br>EUH071<br>See Section 16 for<br>the full text of the H<br>statements declared<br>above. | mg/kg<br>Skin Sens. 1, H317:<br>C ≥ 0.001% |  |  |
|--|---|---|--|--|--|

Contains one or more of the following:

CAS: 64742-54-7, EC: 265-157-1, EU REACH: 01-2119484627-25 CAS: 64742-55-8, EC: 265-158-7, EU REACH: 01-2119487077-29 CAS: 64742-56-9, EC: 265-159-2, EU REACH: 01-2119480132-48 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.

Туре

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.<br>If not breathing, if breathing is irregular or if respiratory arrest occurs, provide<br>artificial respiration or oxygen by trained personnel. It may be dangerous to the<br>person providing aid to give mouth-to-mouth resuscitation. Get medical attention if<br>adverse health effects persist or are severe. If unconscious, place in recovery<br>position and get medical attention immediately. Maintain an open airway. Loosen<br>tight clothing such as a collar, tie, belt or waistband.   |
| Skin contact               | : ₩ash skin thoroughly with soap and water or use recognized skin cleanser.<br>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.<br>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.   |
|                            | ns and effects, both acute and delayed   |
| Over-exposure signs/symp   |  |
| 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:<br>irritation<br>dryness |
|--------------|--|
| Ingestion    | cracking<br>: No specific data.  |

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

| Notes to physician  | : <b>F</b> reat symptomatically. Contact poison treatment specialist immediately if large |
|---------------------|---|
|                     | quantities have been ingested or inhaled.   |
| Specific treatments | : No specific treatment.  |

## **SECTION 5: Firefighting measures**

| 5.1 Extinguishing media<br>Suitable extinguishing<br>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<br>products      | : Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>sulfur oxides<br>metal oxide/oxides |
| 5.3 Advice for firefighters           |   |

# Special protective actions for fire-fighters Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

#### **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, pro  | te | ctive equipment and emergency procedures   |
|--------------------------------|----|--|
| For non-emergency<br>personnel | :  | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Avoid breathing vapor or<br>mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>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<br>up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br>material and place in an appropriate waste disposal container. Dispose of via a<br>licensed waste disposal contractor.   |
|---------------------------------|--|
| Large spill                     | : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. |
| 6.4 Reference to other sections | : See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>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) - H304 | Working Environment Authority (Denmark, 6/2021). []<br>TWA: 1 mg/m <sup>3</sup> 8 hours. Form: mist and particles<br>EU OEL (Europe).<br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Mist<br>STEL: 10 mg/m <sup>3</sup> 15 minutes. Form: Mist |
| maleic anhydride                                | Working Environment Authority (Denmark, 6/2021).<br>TWA: 0.1 ppm 8 hours.<br>TWA: 0.4 mg/m <sup>3</sup> 8 hours.   |

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

|  | Recommended monitoring<br>procedures | : If this product contains ingredients with exposure limits, personal, workplace<br>atmosphere or biological monitoring may be required to determine the effectiveness<br>of the ventilation or other control measures and/or the necessity to use respiratory<br>protective equipment. Reference should be made to monitoring standards, such as<br>the following: European Standard EN 689 (Workplace atmospheres - Guidance for<br>the assessment of exposure by inhalation to chemical agents for comparison with<br>limit values and measurement strategy) European Standard EN 14042 (Workplace<br>atmospheres - Guide for the application and use of procedures for the assessment<br>of exposure to chemical and biological agents) European Standard EN 482<br>(Workplace atmospheres - General requirements for the performance of procedures<br>for the measurement of chemical agents) Reference to national guidance<br>documents for methods for the determination of hazardous substances will also be<br>required. |
|--|--------------------------------------|--|
|--|--------------------------------------|--|

#### **DNELs/DMELs**

| Product/ingredient name | Туре | Exposure                 | Value                       | Population            | Effects  |
|-------------------------|------|--------------------------|-----------------------------|-----------------------|----------|
| C14-16-18 Alkyl Phenol  | DNEL | Long term Dermal         | 0.3 mg/kg<br>bw/day         | Workers               | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 1.17 mg/m <sup>3</sup>      | Workers               | Systemic |
| maleic anhydride        | DNEL | Long term<br>Inhalation  | 0.05 mg/m <sup>3</sup>      | General<br>population | Systemic |
|                         | DNEL | Long term Oral           | 0.06 mg/<br>kg bw/day       | General<br>population | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 0.08 mg/m <sup>3</sup>      | General<br>population | Local    |
|                         | DNEL | Short term Oral          | 0.1 mg/kg<br>bw/day         | General<br>population | Systemic |
|                         | DNEL | Short term Dermal        | 0.1 mg/kg<br>bw/day         | General population    | Systemic |
|                         | DNEL | Long term Dermal         | 0.1 mg/kg<br>bw/day         | General population    | Systemic |
|                         | DNEL | Short term Dermal        | 0.2 mg/kg<br>bw/day         | Workers               | Systemic |
|                         | DNEL | Long term Dermal         | 0.2 mg/kg<br>bw/day         | Workers               | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 0.081 mg/<br>m <sup>3</sup> | Workers               | Local    |
|                         | DNEL | Long term<br>Inhalation  | 0.081 mg/<br>m <sup>3</sup> | Workers               | Systemic |
|                         | DNEL | Short term<br>Inhalation | 0.2 mg/m <sup>3</sup>       | Workers               | Local    |
|                         | DNEL | Short term<br>Inhalation | 0.2 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 measures
 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.

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

| <b>I</b>                        |  |
|---------------------------------|--|
| 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<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Wear suitable gloves tested to EN374. Recommended: < 1<br>hour (breakthrough time): nitrile rubber 0.17 mm. Provide employee with skin<br>care programmes.         |
| Body protection                 | <ul> <li>Personal protective equipment for the body should be selected based on the task<br/>being performed and the risks involved and should be approved by a specialist<br/>before handling this product.</li> </ul>  |
| Other skin protection           | <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>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<br>ensure they comply with the requirements of environmental protection legislation.<br>In some cases, fume scrubbers, filters or engineering modifications to the process<br>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                              | : Clear.  |
| Color                                   | : Yellow  |
| Odor                                    | : Slight  |
| Odor threshold                          | : Not available.  |
| Melting point/freezing point            | : 롣 30°C (<-22°F) [ASTM D 97]   |
| Initial boiling point and boiling range | : >300°C (>572°F)   |
| Flammability                            | : Not applicable.   |
| Lower and upper explosion limit         | : Not available.  |
| Flash point                             | : Open cup: >200°C (>392°F) [ASTM D92.]   |
| Auto-ignition temperature               | : >300°C (>572°F)   |
| Decomposition temperature               | : >300°C  |
| pH                                      | Not applicable.   |
| Viscosity                               | : Kinematic (40°C (104°F)): 45.2 mm²/s (45.2 cSt) [ASTM D 445]<br>Kinematic (100°C (212°F)): 9.2 mm²/s (9.2 cSt) [ASTM D 445] |

#### Solubility(ies)

| Media                   | Result                     |  |  |  |
|-------------------------|----------------------------|--|--|--|
| cold water<br>hot water | Not soluble<br>Not soluble |  |  |  |

# SECTION 9: Physical and chemical properties

| Partition coefficient: n-octanol/<br>water | : | Not applicable.                       |
|--|---|---------------------------------------|
| Vapor pressure                             | : | <0.01 kPa (<0.075006 mm Hg)           |
| Density                                    | : | Ø.8 g/cm³ [15°C (59°F)] [ASTM D 4052] |
| Vapor density                              | 1 | Not available.                        |
| Explosive properties                       | 1 | Not applicable.                       |
| Oxidizing properties                       | 1 | Not applicable.                       |
| Particle characteristics                   |   |                                       |
| Median particle size                       | 1 | Not applicable.                       |

# SECTION 10: Stability and reactivity

|  | 5   |         |
|--|---|---------|
| 10.1 Reactivity                          | No specific test data related to reactivity available for this product or its ingrec                | lients. |
| 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 occ                        | ;ur.    |
| 10.4 Conditions to avoid                 | No specific data.   |         |
| 10.5 Incompatible materials              | Reactive or incompatible with the following materials:<br>Strong oxidizing materials                |         |
| 10.6 Hazardous<br>decomposition products | Under normal conditions of storage and use, hazardous decomposition produse should not be produced. | ucts    |

# **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,<br>Female | 5.53 mg/l                  | 4 hours  |
|   | LD50 Dermal<br>LD50 Oral        | Rabbit<br>Rat         | >5000 mg/kg<br>>5000 mg/kg | -        |
| maleic anhydride                                | LD50 Dermal<br>LD50 Oral        | Rabbit<br>Rat         | 2620 mg/kg<br>400 mg/kg    | -        |

**Conclusion/Summary** : Not available.

#### Acute toxicity estimates

| Product/ingredient name  | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapors)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|----------------------------------|--|
| Severely refined mineral oil (C15 - C50) - H304 maleic anhydride | N/A              | N/A               | N/A                            | N/A                              | 5.53   |
|  | 400              | 2620              | N/A                            | N/A                              | N/A  |

Irritation/Corrosion

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# **SECTION 11: Toxicological information**

|   | - 9                                   |         |       |          | -           |
|---|---------------------------------------|---------|-------|----------|-------------|
| 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<br>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      |
| maleic anhydride                                | Eyes - Severe irritant                | Rabbit  | -     | 1 %      | -           |

**Conclusion/Summary** : Not available.

**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<br>(C15 - C50) - H304 | 474 Mammalian<br>Erythrocyte<br>Micronucleus Test | Experiment: In vivo<br>Subject: Mammalian-Animal<br>Cell: Somatic | Negative |

**Conclusion/Summary** : Not available.

#### **Carcinogenicity**

| Product/ingredient name                            | Result                 | Species        | Dose | Exposure |
|--|------------------------|----------------|------|----------|
| Severely refined mineral oil<br>(C15 - C50) - H304 | Negative - Dermal - TC | Mouse - Female | -    | 78 weeks |

**Conclusion/Summary** : Not available.

**Reproductive toxicity** 

| Product/ingredient name                            | Maternal<br>toxicity | Fertility | Development<br>toxin | Species | Dose                    | Exposure |
|--|----------------------|-----------|----------------------|---------|-------------------------|----------|
| Severely refined mineral oil<br>(C15 - C50) - H304 | Negative             | Negative  | Negative             | ,       | Oral:<br>1000 mg/<br>kg | -        |

Conclusion/Summary

: Not available.

**Teratogenicity** 

| Product/ingredient name                            | Result            | Species | Dose       | Exposure        |
|--|-------------------|---------|------------|-----------------|
| Severely refined mineral oil<br>(C15 - C50) - H304 | 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 |
|-------------------------|------------|-------------------|---------------|
| ☑14-16-18 Alkyl Phenol  | Category 2 | -                 | liver         |
| maleic anhydride        | Category 1 | inhalation        | -             |

Aspiration hazard

# **SECTION 11: Toxicological information**

| 0  |                                |
|--|--------------------------------|
| Product/ingredient name                                    | Result                         |
| Severely refined mineral oil (C15 - C50) - H304            | ASPIRATION HAZARD - Category 1 |
| Dec-1-ene, homopolymer, hydrogenated Dec-1-ene, oligomers, | ASPIRATION HAZARD - Category 1 |
| hydrogenated   |                                |

| Information on the likely routes of exposure | 1        | Not available.  |
|--|----------|---|
| Potential acute health effects               | <u>;</u> |   |
| Eye contact                                  | :        | No known significant effects or critical hazards.             |
| Inhalation                                   | :        | No known significant effects or critical hazards.             |
| Skin contact                                 | :        | Defatting to the skin. May cause skin dryness and irritation. |
| Ingestion                                    | :        | No known significant effects or critical hazards.             |

#### Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact<br>Inhalation | <ul><li>No specific data.</li><li>No specific data.</li></ul>                      |
|---------------------------|--|
| Skin contact              | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>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    | 1 | Not available. |
| Potential delayed effects      | : | Not available. |
| <u>Long term exposure</u>      |   |                |
| Potential immediate<br>effects | 1 | Not available. |
| Potential delayed effects      | : | Not available. |

#### Potential chronic health effects

| Product/ingredient name                            | Result  | Species               | Dose        | Exposure                     |
|--|---|-----------------------|-------------|------------------------------|
| Severely refined mineral oil<br>(C15 - C50) - H304 | Sub-acute LOAEL Oral  | Rat - Male            | 125 mg/kg   | 13 weeks; 5<br>hours per day |
|  | Sub-chronic NOAEL Oral  | Rat - Male,<br>Female | ≥2000 mg/kg | 13 weeks; 5<br>days per week |
|  | Sub-acute NOAEL Inhalation Vapor  | Rat - Male            | >980 mg/m³  | 4 weeks; 5 days<br>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                              | : 📈 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**

# **SECTION 11: Toxicological information**

Not available.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

| ae  | 72 hours                                    |
|---|---|
|   |   |
| ohnia - Daphnia Magma<br>1 - Pimephales promelas<br>ohnia - Daphnia magna<br>1 - Gambusia affinis - Adult | 48 hours<br>96 hours<br>21 days<br>96 hours |
| bh  | nia - Daphnia magna                         |

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

| Conclusion/Summary                              | : Not available.  |            |                  |
|---|-------------------|------------|------------------|
| 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 |
|---|--------|-----|-----------|
| Dec-1-ene, homopolymer,<br>hydrogenated Dec-1-ene,<br>oligomers, hydrogenated | >6.5   | -   | high      |
| maleic anhydride  | -2.78  | -   | 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** 

## **SECTION 13: Disposal considerations**

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

European waste catalogue (EWC)

| Waste code          | Waste designation   |  |
|---------------------|---|--|
| 13 02 06*           | synthetic 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<br>or liners may retain some product residues. Avoid dispersal of spilled material and<br>runoff and contact with soil, waterways, drains and sewers. |  |

# **SECTION 14: Transport information**

|                                    | -              |                |                |                |
|------------------------------------|----------------|----------------|----------------|----------------|
|                                    | ADR/RID        | ADN            | IMDG           | ΙΑΤΑ           |
| 14.1 UN number<br>or ID number     | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| 14.2 UN proper shipping name       | -              | -              | -              | -              |
| 14.3 Transport<br>hazard class(es) | -              | -              | -              | -              |
| 14.4 Packing<br>group              | -              | -              | -              | -              |
| 14.5<br>Environmental<br>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.

# **SECTION 15: Regulatory information**

| Annex XVII - Restrictions<br>on the manufacture,<br>placing on the market<br>and use of certain<br>dangerous substances,<br>mixtures and articles | : Not applicable.   |
|---|---|
| Other EU regulations  |   |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Air   | : Not listed  |
| Industrial emissions<br>(integrated pollution<br>prevention and control) -<br>Water   | : Not listed  |
| Ozone depleting substance   | <u>≱s (1005/2009/EU)</u>  |
| Not listed.   |   |
| Prior Informed Consent (PI<br>Not listed.   | <u>C) (649/2012/EU)</u>   |
| Persistent Organic Pollutar<br>Not listed.  | <u>1ts</u>  |
| Seveso Directive<br>This product is not controlled<br><u>National regulations</u>   | under the Seveso Directive.   |
| <u>Denmark</u>  |   |
| Product registration number   | : 4027527   |
| MAL-code  | : 🛛 🖉 🖉 - 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:  |
|   | <b>General:</b> Gloves must be worn for all work that may result in soiling. Apron/<br>coveralls/protective clothing must be worn when soiling is so great that regular work<br>clothes do not adequately protect skin against contact with the product. A face<br>shield must be worn in work involving spattering if a full mask is not required. In this<br>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<br><b>Application:</b> 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**

|   | <ul> <li>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.</li> <li>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</li> </ul>   |
|---|--|
|   | worn.  |
|   | <b>Caution</b> The regulations contain other stipulations in addition to the above.  |
|   | *See Regulations.  |
| (WGK)                                     | : 1  |
| Switzerland                               | . Evennt   |
| VOC content<br>International regulations  | : Exempt.  |
|   | n List Schedules I, II & III Chemicals   |
| Not listed.                               |  |
| Montreal Protocol                         |  |
| Not listed.                               |  |
| Stockholm Convention on Pe                | rsistent Organic Pollutants  |
| Not listed.                               |  |
| Rotterdam Convention on Pr<br>Not listed. | or Informed Consent (PIC)  |
| UNECE Aarhus Protocol on F                | OPs and Heavy Metals   |
| Not listed.                               |  |
| Inventory list                            |  |
| Australia                                 | : All components are listed or exempted.   |
| Canada                                    | : All components are listed or exempted.   |
| China                                     | : All components are listed or exempted.   |
| Eurasian Economic Union                   | : Russian Federation inventory: Not determined.  |
| Japan                                     | : Japan inventory (CSCL): All components are listed or exempted.<br>Japan inventory (ISHL): Not determined.  |
| New Zealand                               | : All components are listed or exempted.   |
| Philippines                               | : All components are listed or exempted.   |
|   | : All components are listed or exempted.   |
| Taiwan                                    | : Not determined.  |
| Thailand                                  | : Not determined.  |
| Turkey                                    | : Not determined.  |
| United States of America                  | : All components are active or exempted.   |
| Viet Nam                                  | : Not determined.  |
| 15.2 Chemical Safety<br>Assessment        | Provide the set of |

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## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Indicates information | ion that has changed from previously issued version.  |
|-----------------------|---|
| Abbreviations and     | : 🕅 N = European Provisions concerning the International Carriage of Dangerous                    |
| acronyms              | 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<br>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

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

| <b>⊮</b> 302 | Harmful if swallowed.  |
|--------------|--|
| H304         | May be fatal if swallowed and enters airways.                              |
| H314         | Causes severe skin burns and eye damage.                                   |
| H317         | May cause an allergic skin reaction.                                       |
| H318         | Causes serious eye damage.   |
| H334         | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H372         | Causes damage to organs through prolonged or repeated exposure.            |
| H373         | May cause damage to organs through prolonged or repeated exposure.         |
| H413         | May cause long lasting harmful effects to aquatic life.                    |
| EUH071       | Corrosive to the respiratory tract.  |
|              |  |

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

| Acute Tox. 4           | ACUTE TOXICITY - Category 4                                     |
|------------------------|---|
| Aquatic Chronic 4      | AQUATIC HAZARD (LONG-TERM) - Category 4                         |
| Asp. Tox. 1            | ASPIRATION HAZARD - Category 1                                  |
| Eye Dam. 1             | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1                 |
| Resp. Sens. 1          | RESPIRATORY SENSITIZATION - 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 1              | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| STOT RE 2              | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| Training advice        | : Ensure operatives are trained to minimise exposures.          |
| Date of printing       | : 03-01-2023  |
| Date of issue/ Date of | : 03-01-2023  |
| revision               |   |
| Date of previous issue | e : 21-02-2022  |
| Version                | : 1.07  |
| Prepared by            | : Kuwait Petroleum Research & Technology B.V., The Netherlands  |
| Notice to reader       |   |

#### 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.