

## SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK **REACH Regulation SI 2019/758** 

**RUBIA OPTIMA 1100 15W-40** 

SDS no. 087157

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

**1.1 Product identifier Product name Product code** : 087157 **Product description** : Not available. **Product type** : Liquid. Other means of

### : RUBIA OPTIMA 1100 15W-40

identification

: Not available.

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

| Identified uses      |  |
|----------------------|--|
| Engine oil           |  |
| Uses advised against |  |

Not applicable.

#### 1.3 Details of the supplier of the safety data sheet

**TotalEnergies Lubrifiants** 562 Avenue du Parc de L'ile 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

rm.msds-lubs@totalenergies.com

TotalEnergies Marketing UK Limited 10 Upper Bank Street (19th floor) Canary Wharf, London E14 5BF UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033 rm.gb-msds@totalenergies.com

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#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

| Telephone number        | : National Poisons Information Service (NPIS): 111  |
|-------------------------|---|
| <u>Supplier</u>         |   |
| Telephone number        | : Emergency telephone: +44 1235 239670  |
|                         |   |
| Hours of operation      | <ul> <li>Edit the content of sentence <gb -="" hours="" number="" of<br="" supplier="" telephone="">operation&gt; to define this output</gb></li> </ul> |
| Information limitations | : Edit the content of sentence <gb -="" information<br="" number="" supplier="" telephone="">limitations&gt; to define this output</gb>                 |



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

| 2.1 Classification of the subs  | stance or mixture  |  |  |
|---|--|--|--|
| Product definition  | : Mixture  |  |  |
| Classification according to<br>Not classified.  | Regulation (EC) No. 1272/2008 [CLP/GHS]  |  |  |
| The product is not classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.   |  |  |  |
| Ingredients of unknown ecotoxicity  | : Contains 3.9% of components with unknown hazards to the aquatic environment  |  |  |
| See Section 11 for more deta  | iled information on health effects and symptoms.   |  |  |
| 2.2 Label elements  |  |  |  |
| Signal word   | : No signal word.  |  |  |
| Hazard statements   | : No known significant effects or critical hazards.  |  |  |
| Precautionary statements  |  |  |  |
| Prevention  | : Not applicable.  |  |  |
| Response  | : Not applicable.  |  |  |
| Storage   | : Not applicable.  |  |  |
| Disposal  | : Not applicable.  |  |  |
| Supplemental label elements   | <ul> <li>Contains Molybdenum polysulphide long chain alkyl dithiocarbamate complex. May<br/>produce an allergic reaction.</li> <li>Safety data sheet available on request.</li> </ul>  |  |  |
| 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.  |  |  |
| 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 in a concentration >= 0,1 %.<br>This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605. |  |  |
| Other hazards which do not result in classification   | : Hazard of slipping on spilt product.   |  |  |

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

3.2 Mixtures

: Mixture



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| Product/ingredient name   | Identifiers   | %    | Classification  | Туре |
|---|---|------|---|------|
| eaction mass of isomers of:<br>C7-9-alkyl 3-(3,5-di-tert-butyl-<br>4-hydroxyphenyl)propionate | REACH #:<br>01-0000015551-76<br>EC: 406-040-9<br>CAS: 125643-61-0                       | ≤3   | Aquatic Chronic 4,<br>H413  | [1]  |
| Distillates (petroleum),<br>hydrotreated heavy paraffinic                                     | REACH #:<br>01-2119484627-25<br>EC: 265-157-1<br>CAS: 64742-54-7                        | ≤3   | Asp. Tox. 1, H304   | [1]  |
| Distillates (petroleum), solvent-<br>dewaxed heavy paraffinic                                 | Index: 649-467-00-8<br>REACH #:<br>01-2119471299-27<br>EC: 265-169-7<br>CAS: 64742-65-0 | ≤3   | Asp. Tox. 1, H304   | [1]  |
| Distillates (petroleum), solvent-<br>dewaxed light paraffinic                                 | Index: 649-474-00-6<br>REACH #:<br>01-2119480132-48<br>EC: 265-159-2<br>CAS: 64742-56-9 | ≤3   | Asp. Tox. 1, H304   | [1]  |
| Paraffin oils (petroleum), catalytic<br>dewaxed heavy   | Index: 649-469-00-9<br>REACH #:<br>01-2119487080-42<br>EC: 265-174-4<br>CAS: 64742-70-7 | ≤3   | Asp. Tox. 1, H304   | [1]  |
| zinc bis[O-(6-methylheptyl)] bis[O-<br>(sec-butyl)] bis(dithiophosphate)                      | REACH #:<br>01-2119543726-33<br>EC: 298-577-9<br>CAS: 93819-94-4                        | <2.5 | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Chronic 2,<br>H411         | [1]  |
| Molybdenum polysulphide long<br>chain alkyl dithiocarbamate<br>complex                        | REACH #:<br>01-0000019337-66<br>EC: 457-320-2   | ≤0.3 | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Chronic 3,<br>H412      | [1]  |
|   |   |      | See Section 16 for<br>the full text of the H<br>statements declared<br>above. |      |

 Mineral oil of petroleum origin Product containing mineral oil with less than 3 DMSO extract as measured by IP 346

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

Туре

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.



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### **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. Get medical attention if irritation occurs.  |
|----------------------------|--|
| Inhalation                 | : Remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>Get medical attention if symptoms occur.   |
| Skin contact               | : Wash skin thoroughly with soap and water or use recognised skin cleanser.<br>Remove contaminated clothing and shoes. Get medical attention if symptoms occur.  |
| Ingestion                  | : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training.   |

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

| <u> Over-exposure signs/</u> | <u>symptoms</u>  |
|------------------------------|--|
| Eye contact                  | : No specific data.  |
| Inhalation                   | : No specific data.  |
| Skin contact                 | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking |
| Ingestion                    | : No specific data.  |

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

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

## **SECTION 5: Firefighting measures**

| _  | _   |
|--|---|
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | :   |
| 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                           | : carbon monoxide<br>carbon dioxide<br>Silicon Dioxide<br>phosphorus oxides<br>sulfur oxides<br>Hydrogen sulfide<br>Mercaptans<br>Zinc oxides |



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## **SECTION 5: Firefighting measures**

| 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 | <ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained<br/>breathing apparatus (SCBA) with a full face-piece operated in positive pressure<br/>mode.</li> </ul> |

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

| 6.1 Personal precautions, pro   | tive 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 fro<br>entering. Do not touch or walk through spilt material. Put on appropriate persor<br>protective equipment.  |
| For emergency responders        | f specialised clothing is required to deal with the spillage, take note of any nformation in Section 8 on suitable and unsuitable materials. See also the nformation in "For non-emergency personnel".   |
| 6.2 Environmental precautions   | Avoid dispersal of spilt material and runoff and contact with soil, waterways, drai<br>and sewers. Inform the relevant authorities if the product has caused environme<br>pollution (sewers, waterways, soil or air).  |
| 6.3 Methods and material for    | tainment and cleaning up   |
| Small spill                     | Stop leak if without risk. Move containers from spill area. Dilute with water and 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 icensed waste disposal contractor.   |
| Large spill                     | Stop leak if without risk. Move containers from spill area. Prevent entry into sev<br>water courses, basements or confined areas. Wash spillages into an effluent<br>reatment plant or proceed as follows. Contain and collect spillage with non-<br>combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous e<br>and place in container for disposal according to local regulations (see Section 13<br>Dispose of via a licensed waste disposal contractor. Note: see Section 1 for<br>emergency contact information and Section 13 for waste disposal. |
| 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



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### **SECTION 7: Handling and storage**

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 unlabelled 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. |

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

#### 8.1 Control parameters

solutions

#### **Occupational exposure limits**

No exposure limit value known.

Reportable hazardous constituent(s) contained in UVCB- and/or multi-constituent substance(s) complying with the classification criteria and/or with an exposure limit (OEL)

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

# Advisory OEL : Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m3, NIOSH (REL) TWA 5 mg/m3, STEL 10 mg/m3, ACGIH (TLV) TWA 5 mg/m3 (highly refined)

#### **DNELs/DMELs**

| Product/substance   | Туре         | Exposure                       | Value                        | Population            | Effects           |
|---|--------------|--------------------------------|------------------------------|-----------------------|-------------------|
| Peaction mass of isomers of:<br>C7-9-alkyl 3-(3,5-di-tert-butyl-<br>4-hydroxyphenyl) propionate | DNEL         | Long term<br>Inhalation        | 3 mg/m³                      | Workers               | Systemic          |
| 5 51 571 1  | DNEL         | Long term Dermal               | 8.6 mg/kg<br>bw/day          | Workers               | Systemic          |
|   | DNEL         | Long term<br>Inhalation        | 0.74 mg/m <sup>3</sup>       | General<br>population | Systemic          |
|   | DNEL         | Long term Dermal               | 4.3 mg/kg<br>bw/day          | General<br>population | Systemic          |
|   | DNEL         | Long term Oral                 | 0.43 mg/<br>kg bw/day        | General<br>population | Systemic          |
|   | DNEL         | Long term Dermal               | 0.006 mg/<br>cm <sup>2</sup> | Workers               | Local             |
|   | DNEL         | Long term Oral                 | 0.16 mg/<br>kg bw/day        | General<br>population | Systemic          |
|   | DNEL         | Long term Dermal               | 0.22 mg/<br>kg bw/day        | Workers               | Systemic          |
|   | DNEL         | Long term Dermal               | 0.33 mg/<br>kg bw/day        | General<br>population | Systemic          |
|   | DNEL         | Long term<br>Inhalation        | 0.74 mg/m <sup>3</sup>       |                       | Systemic          |
|   | DNEL<br>DNEL | Short term Dermal<br>Long term | 1 mg/cm²<br>2.33 mg/m³       | Workers<br>Workers    | Local<br>Systemic |



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|   |              | Inhalation                                  |                         |                       |                      |
|---|--------------|---|-------------------------|-----------------------|----------------------|
|   | DNEL         | Short term Dermal                           | 8.33 mg/<br>cm²         | General<br>population | Local                |
|   | DNEL         | Short term Dermal                           | 20 mg/kg                | Workers               | Systemic             |
|   | DNEL         | Short term Oral                             | bw/day<br>50 mg/kg      | General               | Systemic             |
|   | DNEL         | Short term Dermal                           | bw/day<br>50 mg/kg      | population<br>General | Systemic             |
|   | DNEL         | Short term                                  | bw/day<br>875 mg/m³     | population<br>General | Systemic             |
|   | DNEL         | Inhalation<br>Short term                    | 1750 mg/                | population<br>Workers | Systemic             |
| Distillates (petroleum), hydrotreated                         | DNEL         | Inhalation<br>Long term Oral                | m³<br>0.74 mg/          | General               | Systemic             |
| neavy paraffinic  | DNEL         | Long term Dermal                            | kg bw/day<br>0.97 mg/   | population<br>Workers | Systemic             |
|   | DNEL         | Long term                                   | kg bw/day<br>1.19 mg/m³ | General               | Local                |
|   | DNEL         | Inhalation<br>Long term                     | 2.73 mg/m <sup>3</sup>  | population            | Systemic             |
|   | DNEL         | Inhalation<br>Long term                     | 5.58 mg/m <sup>3</sup>  |                       | Local                |
| Distillates (petroleum), solvent-                             | DNEL         | Inhalation<br>Long term                     | 5.58 mg/m <sup>3</sup>  |                       | Local                |
| dewaxed heavy paraffinic                                      | DNEL         | Inhalation<br>Long term                     | 1.19 mg/m <sup>3</sup>  |                       | Local                |
|   | DNEL         | Inhalation                                  | -                       | population<br>General |                      |
|   |              | Long term Oral                              | 740 µg/kg               | population            | Systemic             |
|   | DNEL<br>DNEL | Long term Dermal<br>Long term<br>Inhalation | 970 µg/kg<br>2.73 mg/m³ | Workers<br>Workers    | Systemic<br>Systemic |
|   | DNEL         | Long term Oral                              | 0.74 mg/<br>kg bw/day   | General<br>population | Systemic             |
|   | DNEL         | Long term Dermal                            | 0.97 mg/<br>kg bw/day   | Workers               | Systemic             |
|   | DNEL         | Long term<br>Inhalation                     | 1.19 mg/m <sup>3</sup>  | General<br>population | Local                |
|   | DNEL         | Long term<br>Inhalation                     | 2.73 mg/m <sup>3</sup>  |                       | Systemic             |
|   | DNEL         | Long term<br>Inhalation                     | 5.58 mg/m <sup>3</sup>  | Workers               | Local                |
| Distillates (petroleum), solvent-<br>dewaxed light paraffinic | DNEL         | Long term Oral                              | 0.74 mg/<br>kg bw/day   | General<br>population | Systemic             |
|   | DNEL         | Long term Dermal                            | 0.97 mg/<br>kg bw/day   | Workers               | Systemic             |
|   | DNEL         | Long term                                   | 1.19 mg/m <sup>3</sup>  |                       | Local                |
|   | DNEL         | Inhalation<br>Long term                     | 2.73 mg/m <sup>3</sup>  | population<br>Workers | Systemic             |
|   | DNEL         | Inhalation<br>Long term                     | 5.58 mg/m <sup>3</sup>  | Workers               | Local                |
| Paraffin oils (petroleum), catalytic                          | DNEL         | Inhalation<br>Long term Oral                | 0.74 mg/                | General               | Systemic             |
| dewaxed heavy   | DNEL         | Long term Dermal                            | kg bw/day<br>0.97 mg/   | population<br>Workers | Systemic             |
|   | DNEL         | Long term                                   | kg bw/day<br>1.19 mg/m³ | General               | Local                |

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|  |      | Inhalation              |                        | population            |          |
|--|------|-------------------------|------------------------|-----------------------|----------|
|  | DNEL | Long term<br>Inhalation | 2.73 mg/m <sup>3</sup> | Workers               | Systemic |
|  | DNEL | Long term<br>Inhalation | 5.58 mg/m³             | Workers               | Local    |
| inc bis[O-(6-methylheptyl)] bis[O-<br>sec-butyl)] bis(dithiophosphate) | DNEL | Long term Oral          | 0.24 mg/<br>kg bw/day  | General<br>population | Systemic |
|  | DNEL | Long term Dermal        | 0.29 mg/<br>kg bw/day  | General population    | Systemic |
|  | DNEL | Long term Dermal        | 0.58 mg/<br>kg bw/day  | Workers               | Systemic |
|  | DNEL | Long term<br>Inhalation | 2.11 mg/m <sup>3</sup> | General<br>population | Systemic |
|  | DNEL | Long term<br>Inhalation | 8.31 mg/m <sup>3</sup> | Workers               | Systemic |

#### **PNECs**

| Product/substance  | <b>Compartment Detail</b> | Value                | Method Detail |
|--|---------------------------|----------------------|---------------|
| Action mass of isomers of: C7-9-alkyl 3-<br>(3,5-di-tert-butyl-4-hydroxyphenyl) propionate | Fresh water               | 0.0043 mg/l          | -             |
|  | Marine water              | 0.00043 mg/l         | -             |
|  | Fresh water sediment      | 233 mg/kg dwt        | -             |
|  | Marine water sediment     | 23.3 mg/kg dwt       | -             |
|  | Soil                      | 189 mg/kg            | -             |
| Distillates (petroleum), hydrotreated heavy paraffinic                                     | Secondary Poisoning       | 9.33 mg/kg           | -             |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic                                  | Secondary Poisoning       | 9.33 mg/kg           | -             |
| zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis(dithiophosphate)                       | Fresh water               | 0.004 mg/l           | -             |
|  | Marine water              | 0.0046 mg/l          | -             |
|  | Fresh water sediment      | 0.0116 mg/kg dwt     | -             |
|  | Marine water sediment     | 0.00116 mg/kg<br>dwt | -             |
|  | Soil                      | 0.00528 mg/kg        | -             |
|  | Sewage Treatment<br>Plant | 100 mg/l             | -             |
|  | Secondary Poisoning       | 10.67 mg/kg dwt      | -             |

#### 8.2 Exposure controls

| Appropriate engineering<br>controls | :   | Good general ventilation should be sufficient to control worker exposure to airborne contaminants.  |
|-------------------------------------|-----|---|
| Individual protection measu         | res |   |
| Hygiene measures                    | :   | Wash hands, forearms and face thoroughly after handling chemical products,<br>before eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing. Ensure that eyewash stations and<br>safety showers are close to the workstation location. |
| Eye/face protection                 | :   | Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.EN 166                                       |
| Skin protection                     |     |   |
|                                     |     |   |



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## **SECTION 8: Exposure controls/personal 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.  |
|---------------------------------|--|
|                                 | Hydrocarbon-proof gloves<br>nitrile rubber<br>Fluorinated rubber   |
|                                 | Please observe the instructions regarding permeability and breakthrough time<br>which are provided by the supplier of the gloves. Also take into consideration the<br>specific local conditions under which the product is used, such as the danger of<br>cuts, abrasion, and the contact time.  |
|                                 | In case of prolonged contact with the product, it is recommended to wear gloves<br>complying with ISO 21420 and EN 374 standards, protecting at least for 480<br>minutes and having a thickness of 0,38 mm at least. These values are indicative<br>only. The level of protection is provided by the material of the glove, its technical<br>characteristics, its resistance to the chemicals to be handled, the appropriateness<br>of its use and its replacement frequency |
| 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          | : None under normal use conditions. If these are not sufficient to maintain exposure below the OEL, suitable respiratory protection must be worn (Type A/P1).  |
| 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**

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The conditions of measurement of all properties are at standard temperature (20°C / 68°F) and pressure (1013 hPa) unless otherwise indicated

| 9.1 Information on basic physic                 | al and chemical properties                           |
|---|--|
| Appearance                                      |  |
| Physical state                                  | : Liquid. [Clear]                                    |
| Colour  | : Amber.   |
| Odour   | : Characteristic.                                    |
| Odour threshold                                 | : Not available.                                     |
| Melting point/freezing point                    | : Technically not possible to measure                |
| Initial boiling point and<br>boiling range      | : ▶316°C (>600.8°F) [ISO 3405]                       |
| Flammability (solid, gas)                       | : Not applicable.                                    |
| Upper/lower flammability or<br>explosive limits | : Lower: 0.9%<br>Upper: 7%                           |
| Flash point                                     | : 🗭pen cup: >220°C (>428°F) [ASTM D 92]              |
| Auto-ignition temperature                       | : >250°C (>482°F) [ASTM E 659]                       |
| Decomposition temperature                       | : Not applicable.                                    |
| рН  | : Not applicable. Product is non-soluble (in water). |
| Viscosity                                       | : Kinematic (40°C): 112 mm²/s [ISO 3104]             |



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

| Solubility(ies) :                            |  |
|--|--|
| Media  | Result   |
| water  | Not soluble  |
| Miscible with water :                        | No.  |
| Partition coefficient: n-octanol/ :<br>water | Not applicable.  |
|  | <0.013 kPa (<0.1 mm Hg) [room temperature]<br>Not applicable. [50°C (122°F)] |
| Relative density :                           | 0.87 [ISO 12185]   |
| Density :                                    | Ø.87 g/cm³ [15°C (59°F)] [ISO 12185]   |
| Vapour density :                             | >2 [Air = 1]   |
| Particle characteristics                     |  |
| Median particle size :                       | Not applicable.  |

9.2 Other information

| SECTION 10: Stabilit                       | y | and reactivity  |
|--|---|---|
| 10.1 Reactivity                            | : | No specific test data related to reactivity available for this product or its ingredients.  |
| 10.2 Chemical stability                    | : | Stable under recommended storage and handling conditions (see Section 7).   |
| 10.3 Possibility of<br>hazardous reactions | : | Under normal conditions of storage and use, hazardous reactions will not occur.   |
| 10.4 Conditions to avoid                   | : | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.<br>No smoking.   |
| 10.5 Incompatible materials                | : | Strong oxidising agents   |
| 10.6 Hazardous<br>decomposition products   | : | earbon monoxide<br>carbon dioxide<br>Silicon Dioxide<br>phosphorus oxides<br>sulfur oxides<br>Hydrogen sulfide<br>Mercaptans<br>Zinc oxides |

## **SECTION 11: Toxicological information**

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



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## SECTION 11: Toxicological information

| Product/substance   | Result                             | Species                  | Dose                       | Exposure     | Test                    |  |  |
|---|------------------------------------|--------------------------|----------------------------|--------------|-------------------------|--|--|
| ₱ pistillates (petroleum),  | LC50 Inhalation Dusts              | Rat - Male,              | >5 mg/l                    | 4 hours      | OECD 403                |  |  |
| hydrotreated heavy paraffinic   | and mists                          | Female                   |                            |              | Read across             |  |  |
|   | LD50 Dermal                        | Rabbit -<br>Male, Female | >5000 mg/kg                | -            | OECD 402<br>Read across |  |  |
|   | LD50 Oral                          | Rat - Male,<br>Female    | >5000 mg/kg                | -            | OECD 401<br>Read across |  |  |
| Distillates (petroleum),<br>solvent-dewaxed heavy<br>paraffinic             | LC50 Inhalation Dusts<br>and mists | Rat                      | >5 mg/l                    | 4 hours      | OECD 403                |  |  |
|   | LD50 Dermal<br>LD50 Oral           | Rabbit<br>Rat            | >5000 mg/kg<br>>5000 mg/kg | -            | OECD 402<br>OECD 420    |  |  |
| Distillates (petroleum),  | LC50 Inhalation Dusts              | Rat                      | >5 mg/l                    | -<br>4 hours | OECD 420<br>OECD 403    |  |  |
| solvent-dewaxed light   | and mists                          | Nat                      | 25 mg/i                    | 4 110013     | 0200 400                |  |  |
|   | LD50 Dermal                        | Rabbit                   | >5000 mg/kg                | -            | OECD 402                |  |  |
|   | LD50 Oral                          | Rat                      | >5000 mg/kg                | -            | OECD 401                |  |  |
| Paraffin oils (petroleum),<br>catalytic dewaxed heavy                       | LC50 Inhalation Dusts<br>and mists | Rat                      | 5.1 mg/l                   | 4 hours      | -                       |  |  |
|   | LC50 Inhalation Vapour             | Rat                      | 80.4 mg/l                  | 1 hours      | -                       |  |  |
|   | LC50 Inhalation Vapour             | Rat                      | 20.1 mg/l                  | 4 hours      | -                       |  |  |
|   | LD50 Dermal                        | Rabbit                   | >5000 mg/kg                | -            | -                       |  |  |
|   | LD50 Oral                          | Rat                      | >5000 mg/kg                | -            | -                       |  |  |
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | LC50 Inhalation Dusts<br>and mists | Rat - Male               | >2 mg/l                    | 1 hours      | OECD 403                |  |  |
|   | LD50 Dermal                        | Rabbit -<br>Male, Female | >3160 mg/kg                | -            | OECD 402                |  |  |
|   | LD50 Oral                          | Rat - Male               | 2600 mg/kg                 | -            | -                       |  |  |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Acute toxicity estimates

| Product/substance  | Oral (mg/<br>kg) | Dermal<br>(mg/kg) | Inhalation<br>(gases)<br>(ppm) | Inhalation<br>(vapours)<br>(mg/l) | Inhalation<br>(dusts<br>and mists)<br>(mg/l) |
|--|------------------|-------------------|--------------------------------|-----------------------------------|--|
| Paraffin oils (petroleum), catalytic dewaxed heavy<br>zinc bis[O-(6-methylheptyl)] bis[O-(sec-butyl)] bis<br>(dithiophosphate) | N/A<br>2600      | N/A<br>N/A        | N/A<br>N/A                     | 20.1<br>N/A                       | 5.1<br>N/A                                   |

#### Irritation/Corrosion

| Product/substance   | Result          | Species | Score | Exposure | Test     |
|---|-----------------|---------|-------|----------|----------|
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | Eyes - Irritant | Rabbit  | -     | -        | -        |
|   | Skin - Irritant | Rabbit  | -     | 4 hours  | OECD 404 |
| Conclusion/Summary  |                 |         |       |          |          |

: Based on available data, the classification criteria are not met.

: Based on available data, the classification criteria are not met.

#### Respiratory Sensitisation

Skin

Eyes

: Based on available data, the classification criteria are not met.



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## **SECTION 11: Toxicological information**

| <b>Conclusion/Summary</b> | 1 · · · · · · · · · · · · · · · · · · ·  |
|---------------------------|--|
| Skin                      | : Based on available data, the classification criteria are not met. Contains sensitiser<br>May produce an allergic reaction. |
| Respiratory               | : Based on available data, the classification criteria are not met.  |

Mutagenicity

| Product/substance   | Test     | Experiment  | Result   |
|---|----------|---|----------|
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | OECD 471 | Experiment: In vitro<br>Subject: Bacteria                         | Negative |
|   | OECD 474 | Experiment: In vivo<br>Subject: Mammalian-Animal<br>Cell: Somatic | Negative |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### **Carcinogenicity**

| Product/substance   | Result               | Species               | Dose | Exposure |
|---|----------------------|-----------------------|------|----------|
| reaction mass of isomers of:<br>C7-9-alkyl 3-(3,5-di-tert-butyl-<br>4-hydroxyphenyl) propionate | Negative - Oral - TC | Rat - Male,<br>Female | -    | -        |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Reproductive toxicity

| Product/substance   | Maternal<br>toxicity | Fertility | Developmental<br>toxin | Species            | Dose | Exposure |
|---|----------------------|-----------|------------------------|--------------------|------|----------|
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | Negative             | Negative  | Negative               | Rat - Male, Female | Oral | -        |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### **Teratogenicity**

| Product/substance   | Result          | Species               | Dose | Exposure |
|---|-----------------|-----------------------|------|----------|
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | Negative - Oral | Rat - Male,<br>Female | -    | -        |

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

Not available.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

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

Not available.

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

Aspiration hazard

| Product/substance   | Result                         |
|---|--------------------------------|
| ♥istillates (petroleum), hydrotreated heavy paraffinic    | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | ASPIRATION HAZARD - Category 1 |
| Distillates (petroleum), solvent-dewaxed light paraffinic | ASPIRATION HAZARD - Category 1 |
| Paraffin oils (petroleum), catalytic dewaxed heavy        | ASPIRATION HAZARD - Category 1 |



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| Conclusion/Summary                                     | :   | : Based on available data, the classification criteria are not met.                |                          |                       |           |  |  |
|--|-----|--|--------------------------|-----------------------|-----------|--|--|
| Information on likely routes of exposure               | :   | : Not available.   |                          |                       |           |  |  |
| Potential acute health effects                         | 5   |  |                          |                       |           |  |  |
| Eye contact  | :   | No known significant effects   | or critical hazards      | 6.                    |           |  |  |
| Inhalation   | :   | No known significant effects   | or critical hazards      | 6.                    |           |  |  |
| Skin contact   | :   | Defatting to the skin. May c   | ause skin dryness        | and irritation.       |           |  |  |
| Ingestion  | :   | No known significant effects   | or critical hazards      | 6.                    |           |  |  |
| Symptoms related to the phy                            | sic | cal, chemical and toxicolog  | ical characteristic      | <u>25</u>             |           |  |  |
| Eye contact  | :   | No specific data.  |                          |                       |           |  |  |
| Inhalation   | :   | No specific data.  |                          |                       |           |  |  |
| Skin contact   | :   | : Adverse symptoms may include the following:<br>irritation<br>dryness<br>cracking |                          |                       |           |  |  |
| Ingestion  | :   | : No specific data.  |                          |                       |           |  |  |
| Delayed and immediate effec                            | ts  | as well as chronic effects f   | rom short and lor        | <u>ng-term exposu</u> | <u>re</u> |  |  |
| Short term exposure                                    |     |  |                          |                       |           |  |  |
| Potential immediate effects                            | ;   | Not available.   |                          |                       |           |  |  |
| Potential delayed effects                              | :   | Not available.   |                          |                       |           |  |  |
| Long term exposure                                     |     |  |                          |                       |           |  |  |
| Potential immediate effects                            | :   | : Not available.   |                          |                       |           |  |  |
| Potential delayed effects                              | :   | : Not available.   |                          |                       |           |  |  |
| Potential chronic health effe                          | ect | <u>s</u>   |                          |                       |           |  |  |
| Product/substance                                      | R   | esult  | Species                  | Dose                  | Exposure  |  |  |
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis |     | Sub-chronic LOAEL Dermal   | Rabbit - Male,<br>Female | 70 mg/kg              | -         |  |  |
| (dithiophosphate)                                      |     | Sub-chronic NOAEL Oral   | Rat - Male,              | 160 mg/kg             | -         |  |  |

| (dimoprosphate)       | Sub-chronic NOAEL Oral  | Rat - Male,<br>Female                               | 160 mg/kg | - |  |
|-----------------------|---|---|-----------|---|--|
| Conclusion/Summary    | : Not available.  | ·   | ·         | · |  |
| General               | : No known significant effect   | : No known significant effects or critical hazards. |           |   |  |
| Carcinogenicity       | : During use in engines, contamination of oil with low levels of combustion products occurs. Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water. |   |           |   |  |
| Mutagenicity          | : No known significant effect   | s or critical hazards                               | 5.        |   |  |
| Reproductive toxicity | : No known significant effect   | s or critical hazards                               | <b>.</b>  |   |  |
|                       |   |   |           |   |  |

#### 11.2 Information on other hazards



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## **SECTION 11: Toxicological information**

### 11.2.1 Endocrine disrupting properties

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

#### 11.2.2 Other information

Not available.

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

#### 12.1 Toxicity

| Product/substance   | Result                  | Species                                       | Exposure | Test     |
|---|-------------------------|---|----------|----------|
| Distillates (petroleum), hydrotreated heavy paraffinic                      | Acute EC50 >100 mg/l    | Algae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | OECD 201 |
|   | Acute EC50 >10000 mg/l  | Crustaceans - Daphnia<br>magna                | 48 hours | OECD 202 |
|   | Chronic NOEL >100 mg/l  | Algae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | OECD 201 |
|   | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia<br>magna                | 21 days  | -        |
| Distillates (petroleum),<br>solvent-dewaxed heavy<br>paraffinic             | Acute EL50 >10000 mg/l  | Crustaceans - Daphnia<br>magna                | 48 hours | OECD 202 |
| F   | Acute LL50 >1000 mg/l   | Fish - Oncorhynchus<br>mykiss                 | 96 hours | OECD 203 |
|   | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia<br>magna                | 21 days  | OECD 211 |
| Distillates (petroleum),<br>solvent-dewaxed light<br>paraffinic             | Acute EL50 >100 mg/l    | Algae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | OECD 201 |
| •   | Acute EL50 10000 mg/l   | Crustaceans - Daphnia<br>magna                | 48 hours | OECD 202 |
|   | Acute EL50 ≥100 mg/l    | Fish - Pimephales<br>promelas                 | 96 hours | OECD 203 |
|   | Chronic NOEL >100 mg/l  | Álgae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | OECD 201 |
|   | Chronic NOEL >1000 mg/l | Crustaceans - Daphnia<br>magna                | 21 days  | OECD 211 |
| Paraffin oils (petroleum), catalytic dewaxed heavy                          | Acute EC50 10000 mg/l   | Daphnia                                       | 48 hours | -        |
|   | Acute NOEL 101 mg/l     | Algae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | -        |
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | Acute EC50 2 mg/l       | Algae - Selenastrum<br>capricornutum          | 96 hours | OECD 201 |
| (annopriospirato)   | Acute EC50 5.4 mg/l     | Crustaceans - Daphnia<br>magna                | 48 hours | OECD 202 |
|   | Acute LC50 4.5 mg/l     | Fish - Oncorhynchus<br>mykiss                 | 96 hours | OECD 203 |
|   | Chronic NOEC 1 mg/l     | Algae - Selenastrum<br>capricornutum          | 96 hours | OECD 201 |



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|   | Chronic NOEC 0.4 mg/l | Crustaceans - Daphnia                                  | 48 hours | OECD 211 |
|---|-----------------------|--|----------|----------|
| Molybdenum polysulphide<br>ong chain alkyl<br>dithiocarbamate complex | Acute EC50 9.6 mg/l   | magna<br>Algae -<br>Pseudokirchneriella<br>subcapitata | 72 hours | OECD 201 |
|   | Acute EC50 50 mg/l    | Crustaceans - Daphnia<br>magna                         | 48 hours | OECD 202 |
|   | Acute LC50 94.8 mg/l  | Fish - Oncorhynchus<br>mykiss                          | 96 hours | OECD 203 |
|   | Chronic NOEC 4.1 mg/l | Algae -<br>Pseudokirchneriella<br>subcapitata          | 72 hours | OECD 201 |

#### 12.2 Persistence and degradability

| Product/substance  | Test      | Result                       | Dose | Inoculum         |
|--|-----------|------------------------------|------|------------------|
| Feaction mass of isomers of:<br>C7-9-alkyl 3-(3,5-di-tert-<br>butyl-4-hydroxyphenyl)<br>propionate | OECD 301B | 2 % - Not readily - 28 days  | -    | Activated sludge |
| Distillates (petroleum),<br>hydrotreated heavy paraffinic  | OECD 301F | 31 % - Not readily - 28 days | -    | Activated sludge |
| Distillates (petroleum),<br>solvent-dewaxed heavy<br>paraffinic                                    | OECD 301F | 31 % - Not readily - 28 days | -    | Activated sludge |
| Distillates (petroleum),<br>solvent-dewaxed light<br>paraffinic                                    | OECD 301F | 31 % - Not readily - 28 days | -    | Activated sludge |
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate)                        | OECD 301B | 0 % - Not readily - 28 days  | -    | Activated sludge |
| Molybdenum polysulphide<br>long chain alkyl<br>dithiocarbamate complex                             | OECD 301B | 0 % - Not readily - 28 days  | -    | Activated sludge |

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

| Product/substance                      | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|------------------|
| reaction mass of isomers of:           | -                 | -          | Not readily      |
| C7-9-alkyl 3-(3,5-di-tert-             |                   |            |                  |
| butyl-4-hydroxyphenyl)                 |                   |            |                  |
| propionate<br>Distillates (petroleum), |                   |            | Not readily      |
| hydrotreated heavy paraffinic          |                   | _          | Notreadily       |
| Distillates (petroleum),               | -                 | _          | Not readily      |
| solvent-dewaxed heavy                  |                   |            |                  |
| paraffinic                             |                   |            |                  |
| Distillates (petroleum),               | -                 | -          | Not readily      |
| solvent-dewaxed light<br>paraffinic    |                   |            |                  |
| Paraffin oils (petroleum),             | _                 | _          | Not readily      |
| catalytic dewaxed heavy                |                   |            | Notroadily       |
| zinc bis[O-(6-methylheptyl)]           | -                 | -          | Not readily      |
| bis[O-(sec-butyl)] bis                 |                   |            |                  |
| (dithiophosphate)                      |                   |            |                  |
|  | l                 | I          |                  |



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# SECTION 12: Ecological information Molybdenum polysulphide long chain alkyl dithiocarbamate complex Not readily

#### 12.3 Bioaccumulative potential

| Product/substance   | LogP <sub>ow</sub> | BCF | Potential |
|---|--------------------|-----|-----------|
| Peaction mass of isomers of:<br>C7-9-alkyl 3-(3,5-di-tert-                  | 9.2                | 260 | low       |
| butyl-4-hydroxyphenyl)<br>propionate  |                    |     |           |
| Distillates (petroleum),<br>hydrotreated heavy paraffinic                   | >4                 | -   | high      |
| Distillates (petroleum),<br>solvent-dewaxed heavy<br>paraffinic             | 9.2                | 260 | low       |
| Distillates (petroleum),<br>solvent-dewaxed light<br>paraffinic             | 3.1                | -   | low       |
| zinc bis[O-(6-methylheptyl)]<br>bis[O-(sec-butyl)] bis<br>(dithiophosphate) | 0.9                | -   | low       |
| Molybdenum polysulphide<br>long chain alkyl<br>dithiocarbamate complex      | >5.1               | 88  | low       |

| 12.4 Mobility in soil                                  |   |
|--|---|
| Soil/water partition<br>coefficient (K <sub>oc</sub> ) | : Not available.  |
| Mobility   | : Not available.  |
| Mobility in soil                                       | : Given its physical and chemical characteristics, the product generally shows low soil mobility The product is insoluble and floats on water. Loss by evaporation is limited |

#### 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

This product does not contain any substance present at a concentration equal to or greater than 0.1% by mass, included in the list drawn up in accordance with article 59, paragraph 1 of the REACh Regulation, due to its endocrine disrupting properties, or a substance known to have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation 2018/605.

#### 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**

| io.i waste treatment methods |   |
|------------------------------|---|
| <u>Product</u>               |   |
| Methods of disposal :        | The generation of waste should be avoided or minimised 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.  |
|                              | According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used The following Waste Codes are only suggestions: 13 02 05*   |
| Packaging                    |   |
| Methods of disposal :        | The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.  |
| Special precautions :        | This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.   |
|                              |   |

## **SECTION 14: Transport information**

|                                    | ADR/RID        | ADN            | IMDG           | ICAO/IATA      |
|------------------------------------|----------------|----------------|----------------|----------------|
| 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.            |

14.6 Special precautions for user

: **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

# 14.7 Maritime transport in bulk according to IMO instruments

: Not available.

Date of revision : 2023/04/24



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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### UK (GB) /REACH

Annex XIV - List of substances subject to authorisation

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

None of the components are listed.

#### **Ozone depleting substances**

Not listed.

Prior Informed Consent (PIC) Not listed.

Persistent Organic Pollutants Not listed.

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

#### Seveso Directive

This product is not controlled under the Seveso Directive.

#### **EU regulations**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

| 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                            |
| International regulations   |   |
| Chemical Weapon Conventi  | on List Schedules I, II & III Chemicals |
| Not listed.   |   |
| Montreal Protocol<br>Not listed.  |   |
| Stockholm Convention on P<br>Not listed.  | Persistent Organic Pollutants           |
|   |   |
| Rotterdam Convention on P   | rior Informed Consent (PIC)             |
| Not listed.   |   |

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



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

Not listed.

| Inventory list                                 |  |
|--|--|
| Australia inventory (AIIC)                     | : Not determined.  |
| Canada inventory                               | : Not determined.  |
| China inventory (IECSC)                        | : All components are listed, exempted, or notified.                                  |
| Europe inventory                               | : All components are listed or exempted.   |
| Japan inventory                                | : Japan inventory (CSCL): Not determined.<br>Japan inventory (ISHL): Not determined. |
| New Zealand Inventory of Chemicals<br>(NZIoC)  | : All components are listed or exempted.   |
| Philippines inventory (PICCS)                  | : All components are listed or exempted.   |
| Korea inventory (KECI)                         | : All components are listed or exempted.   |
| Taiwan Chemical Substances Inventory<br>(TCSI) | : All components are listed or exempted.   |
| Thailand inventory                             | : Not determined.  |
| Turkey inventory                               | : Not determined.  |
| United States inventory (TSCA 8b)              | : At least one component is not listed.  |
| Vietnam inventory                              | : Not determined.  |
| The information stated in this section values  |  |

The information stated in this section relates solely to the conformity of the chemical product with the countries Inventories. The information used to confirm the inventory status of this product may be based on additional data to the chemical composition shown in Section 3. Other regulations may apply for importation or marketing authorizations.

| 15.2 Chemical safety : | This product contains substances for which | Chemical Safety Assessments are still |
|------------------------|--|---------------------------------------|
| assessment             | required.                                  |                                       |

## **SECTION 16: Other information**

| Indicates information that has changed from previously issued version.   |
|--|
| Abbreviations and acronyms       : ATE = Acute Toxicity Estimate         CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]         DNEL = Derived No Effect Level         DMEL = Derived Minimal Effect Level         EUH statement = CLP-specific Hazard statement         N/A = Not available         PBT = Persistent, Bioaccumulative and Toxic         vPvB = Very Persistent and Very Bioaccumulative         PNEC = Predicted No Effect Concentration         LC50 = Median lethal concentration         LD50 = Median lethal dose         OEL = Occupational Exposure Limit         VOC = Volatile Organic Compound         UVCB Substance of unknown or Variable composition, Complex reaction products or Biological material         NOEC No Observed Effect Concentration         QSAR = Quantitative Structure–Activity Relationship |
|  |

### Procedure used to derive the classification

Not classified.



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## **SECTION 16: Other information**

#### Full text of abbreviated H statements

| 5                               | ay be fatal if swallowed and enters airways.<br>auses skin irritation.     |  |
|---------------------------------|--|--|
|                                 | cause an allergic skin reaction.   |  |
| 5                               | ses serious eye damage.  |  |
|                                 | c to aquatic life with long lasting effects.                               |  |
|                                 | Harmful to aquatic life with long lasting effects.                         |  |
| H413 May                        | May cause long lasting harmful effects to aquatic life.                    |  |
| Full text of classificat        | <u>ions</u>  |  |
| Aquatic Chronic 2               | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2                            |  |
| Aquatic Chronic 3               | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3                            |  |
| Aquatic Chronic 4               | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4                            |  |
| Asp. Tox. 1                     | ASPIRATION HAZARD - Category 1   |  |
| Eye Dam. 1                      | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1                             |  |
| Skin Irrit. 2<br>Skin Sens. 1B  | SKIN CORROSION/IRRITATION - Category 2<br>SKIN SENSITISATION - Category 1B |  |
|                                 |  |  |
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