SAFETY DATA SHEET



: 1.01

Version

Europe

Date of issue/Date of revision

: 11 September 2024

undertaking **1.1 Product identifier Product name** : SIGMA SAILADVANCE DX BLACK **Product code** : 00454501 Other means of identification Not available. 1.2 Relevant identified uses of the substance or mixture and uses advised against : Professional applications, Used by spraying. **Product use** Use of the substance/ : Coating. mixture **Uses advised against** : Product is not intended, labelled or packaged for consumer use. 1.3 Details of the supplier of the safety data sheet

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

PPG Coatings Belgium BV/SRL Tweemontstraat 104 B-2100 Deurne Belgium Telephone +32-33606311 Fax +32-33606435

e-mail address of person : Product.Stewardship.EMEA@ppg.com responsible for this SDS

1.4 Emergency telephone number

Supplier

+31 20 4075210

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture <u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u> Flam. Liq. 2, H225 Acute Tox. 4, H302

Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

English (GB)

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SECTION 2: Hazards identification

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

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

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

2.2 Label elements

| Hazard pictograms | : | |
|---|---|--|
| Signal word | : | Danger |
| Hazard statements | : | Highly flammable liquid and vapour. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects. |
| Precautionary statements | | |
| Prevention | : | Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. |
| Response | ; | Collect spillage. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Storage | : | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P391, P305 + P351 + P338, P501 |
| Hazardous ingredients | : | dicopper oxide rosin bis(1-hydroxy-1H-pyridine-2-thionato-O,S)copper 4,5-dichloro-2-octyl-2H-isothiazol-3-one Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine octhilinone (ISO) |
| Supplemental label elements | : | Not applicable. |
| Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | | Not applicable. |
| Special packaging requirem | | |
| Containers to be fitted with child-resistant fastenings | - | Not applicable. |
| Tactile warning of danger | : | Not applicable. |
| 2.3 Other hazards | | |

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| SECTION 2: Hazards identification | | | | |
| Product meets the criteria for PBT or vPvB | : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. | | | |
| Other hazards which do | · Prolonged or repeated contact may dry skin and cause irritation | | | |

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 | % by weight | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
| Copper oxide | REACH #: 01-2119513794-36 EC: 215-270-7 CAS: 1317-39-1 Index: 029-002-00-X | ≥25 - ≤50 | Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 500 mg/ kg ATE [Inhalation (dusts and mists)] = 3.34 mg/l M [Acute] = 100 M [Chronic] = 10 | [1] [2] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥10 - ≤18 | Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥5.0 - <10 | Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | ATE [Inhalation (vapours)] = 17.8 mg/l | [1] [2] |
| zinc oxide | REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7 | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 1 M [Chronic] = 1 | [1] |
| rosin | REACH #: 01-2119480418-32 EC: 232-475-7 CAS: 8050-09-7 Index: 650-015-00-7 | ≥1.0 - ≤5.0 | Skin Sens. 1, H317 | - | [1] [2] |
| bis(1-hydroxy-1H-pyridine- 2-thionato-O,S)copper | EC: 238-984-0 CAS: 14915-37-8 | ≥1.0 - ≤4.4 | Acute Tox. 4, H302 Acute Tox. 2, H330 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 1075 mg/ kg ATE [Inhalation (dusts and mists)] = 0.07 mg/l M [Acute] = 100 M [Chronic] = 100 | [1] |
| copper(II) oxide | REACH #: 01-2119502447-44 | ≥1.0 - ≤5.0 | Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | M [Acute] = 100 M [Chronic] = 10 | [1] |
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|---|--|---------|--|--|---------|--|--|--|
| SECTION 3: Composition/information on ingredients | | | | | | | | |
| | EC: 215-269-1 CAS: 1317-38-0 Index: 029-016-00-6 | | | | | | | |
| tetraethyl silicate | REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0 | ≤1.2 | Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335 | ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] | | | |
| 4,5-dichloro-2-octyl-2H- isothiazol-3-one | EC: 264-843-8 CAS: 64359-81-5 Index: 613-335-00-8 | <1.0 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 | ATE [Oral] = 567 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (dusts and mists)] = 0.16 mg/l Skin Corr. 1, H314: C ≥ 5% Skin Irrit. 2, H315: $0.025\% \le C < 5\%$ Eye Dam. 1, H318: C ≥ 3% Eye Irrit. 2, H319: $0.025\% \le C < 3\%$ Skin Sens. 1, H317: C ≥ 0.0015% M [Acute] = 100 M [Chronic] = 100 | [1] | | | |
| copper | REACH #: 01-2119480154-42 EC: 231-159-6 CAS: 7440-50-8 | <1.0 | Aquatic Acute 1, H400 Aquatic Chronic 3, H412 | M [Acute] = 1 | [1] | | | |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | REACH #: 01-2119979085-27 EC: 309-629-8 CAS: 100545-48-0 | ≤0.30 | Skin Sens. 1B, H317 Aquatic Chronic 3, H412 | - | [1] | | | |
| octhilinone (ISO) | EC: 247-761-7 CAS: 26530-20-1 Index: 613-112-00-5 | <0.0010 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 EUH071 See Section 16 for the full text of the H statements declared above. | ATE [Oral] = 125 mg/ kg ATE [Dermal] = 311 mg/kg ATE [Inhalation (dusts and mists)] = 0.27 mg/l Skin Sens. 1, H317: C $\ge 0.0015\%$ M [Acute] = 100 M [Chronic] = 100 | [1] | | | |

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.

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SECTION 3: Composition/information on ingredients

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

| Eye contact | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention. |
|----------------------------|---|
| Inhalation | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| Skin contact | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners. |
| Ingestion | : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting. |
| Protection of first-aiders | : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

4.2 Most important symptoms and effects, both acute and delayed

| | ······································ |
|--------------------------|--|
| Potential acute health | effects |
| Eye contact | : Causes serious eye damage. |
| Inhalation | : Harmful if inhaled. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : Harmful if swallowed. |
| Over-exposure signs/ | <u>symptoms</u> |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| Inhalation | : No specific data. |
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur |
| Ingestion | : Adverse symptoms may include the following: stomach pains |
| 4.3 Indication of any im | mediate medical attention and special treatment needed |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |

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SECTION 5: Firefighting measures

| 5.1 Extinguishing media | |
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| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| 5.2 Special hazards arising f | rom the substance or mixture |
| Hazards from the substance or mixture | : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| Hazardous combustion products | : Decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides |
| 5.3 Advice for firefighters | |
| Special precautions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. |
| 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 | tective equipment and emergency procedures |
|--------------------------------|---|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| For emergency responders | : If specialised 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 spilt 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). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |
| 6.3 Methods and material for | containment and cleaning up |
| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste |

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disposal container. Dispose of via a licensed waste disposal contractor.

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| SECTION 6: Ad | ccidental release | e measures | |
| Large spill | explosion- sewers, wa treatment combustib | f without risk. Move containers from spill area proof equipment. Approach the release from ater courses, basements or confined areas. V plant or proceed as follows. Contain and colle le, absorbent material e.g. sand, earth, vermin ntainer for disposal according to local regulat | upwind. Prevent entry into Wash spillages into an effluent ect spillage with non- culite or diatomaceous earth and |

waste disposal contractor. Contaminated absorbent material may pose the same

| | hazard as the spilt product. |
|------------------------|---|
| 6.4 Reference to other | : See Section 1 for emergency contact information. |
| sections | See Section 8 for information on appropriate personal protective equipment. |
| | See Section 13 for additional waste treatment information. |

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |
| 7.2 Conditions for safe storage, including any incompatibilities | : Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. 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)

See Section 1.2 for Identified uses.

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SECTION 8: Exposure controls/personal protection

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).

8.1 Control parameters

Occupational exposure limits

| ACGIH TLV (United States, 7/2023). [copper fume] TWA: 0.2 mg/m ³ 8 hours. Form: Fume |
|--|
| 0 |
| ELLOEL (Europa 1/2022) Systems mixed isomers! Absorbed |
| EU OEL (Europe, 1/2022). [xylene, mixed isomers] Absorbed |
| through skin. |
| STEL: 442 mg/m ³ 15 minutes. |
| STEL: 100 ppm 15 minutes. |
| TWA: 221 mg/m ³ 8 hours. |
| TWA: 50 ppm 8 hours. |
| EU OEL (Europe, 1/2022). Absorbed through skin. |
| STEL: 884 mg/m ³ 15 minutes. |
| STEL: 200 ppm 15 minutes. |
| TWA: 442 mg/m ³ 8 hours. |
| TWA: 100 ppm 8 hours. |
| ACGIH TLV (United States, 7/2023). [resin acids] Skin sensitiser. |
| Inhalation sensitiser. |
| TWA: 0.001 mg/m ³ , (as total Resin acids) 8 hours. Form: Inhalable |
| fraction |
| EU OEL (Europe, 1/2022). |
| TWA: 5 ppm 8 hours. |
| TWA: 44 mg/m ³ 8 hours. |
| |

by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-------------------------|------|-----------------------|------------------------|--------------------|----------|
| dicopper oxide | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 137 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Oral | 0.041 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.082 mg/kg bw/day | General population | Systemic |
| xylene | DNEL | Long term Oral | 5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 65.3 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
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SECTION 8: Exposure controls/personal protection

| ethylbenzeneDMEL DMELLong term Inhalation DMEL442 mg/m3 884 mg/m3WorkersLocal SystemicDNEL DNELLong term Oral DNEL1.6 mg/kg bw/day Long term InhalationGeneral population WorkersSystemic Systemiccopper(II) oxideDNEL DNELLong term Inhalation DNEL15 mg/m3 UWorkersWorkersSystemic Systemiccopper(II) oxideDNEL DNELLong term Inhalation DNEL10 mg/kg bw/day UWorkersWorkersSystemic Systemiccopper(II) oxideDNEL DNELLong term Inhalation DNEL1 mg/m3 UWorkersWorkersSystemic Systemiccopper(II) oxideDNEL DNELLong term Inhalation DNEL1 mg/m3 UWorkersWorkersSystemic Systemiccopper(II) oxideDNEL DNELLong term Orral DNEL0.041 mg/kg bw/day UWorkersGeneral population SystemicSystemic SystemicDNEL DNELLong term Inhalation DNEL5.3 mg/m3 General population General populationSystemic SystemicDNEL DNEL DNELLong term Inhalation DNEL5.3 mg/m3 General populationGeneral population SystemicDNEL DNEL DNEL DNEL DNEL DNELShort term Inhalation DNEL <b< th=""><th></th><th></th><th></th><th></th><th></th><th></th></b<> | | | | | | |
|--|-----------------------|------|-----------------------|-------------------------|--------------------|----------|
| DNEL DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Dermal <b< td=""><td>ethylbenzene</td><td>DMEL</td><td>Long term Inhalation</td><td>442 mg/m³</td><td>Workers</td><td>Local</td></b<> | ethylbenzene | DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| DNEL copper(II) oxideDNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL15 mg/m³ Tymg/m³General population Workers WorkersSystemic Systemic Systemiccopper(II) oxideDNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Oral DNEL DNEL Long term Oral DNEL DNEL Long term Oral DNEL DNEL Long term Inhalation DNEL Long term Oral DNEL DNEL Long term Oral DNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL Long term Inhalation D | | DMEL | Short term Inhalation | 884 mg/m³ | Workers | Systemic |
| copper(II) oxideDNEL DNEL DNEL DNEL DNEL DNEL DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL DNEL Long term Oral DNEL DNEL Long term Dermal DNEL Long term Dermal DNEL DNEL Long term Dermal DNEL DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL <br< td=""><td></td><td>DNEL</td><td>Long term Oral</td><td>1.6 mg/kg bw/day</td><td>General population</td><td>Systemic</td></br<> | | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic |
| copper(II) oxideDNEL DNEL DNEL DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Inhalation DNEL Long term Inhalation DNEL Lon | | DNEL | Long term Inhalation | 15 mg/m³ | General population | Systemic |
| copper(II) oxideDNEL DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Inhalation DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Oral DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Inhalation DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL DNEL< | | DNEL | Long term Inhalation | 77 mg/m³ | Workers | Systemic |
| copper(II) oxideDNELLong term Inhalation1 mg/m³WorkersLocalDNELLong term Inhalation1 mg/m³WorkersSystemicDNELLong term Oral0.041 mg/kg bw/dayGeneral populationSystemicDNELShort term Oral0.042 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal1.8 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation5.3 mg/m³General populationLocalDNELShort term Inhalation5.3 mg/m³General populationSystemicDNELLong term Inhalation5.3 mg/m³General populationLocalDNELLong term Inhalation5.3 mg/m³General populationSystemicDNELLong term Inhalation5.3 mg/m³General populationSystemicDNELLong term Inhalation5.3 mg/m³General populationSystemicDNELLong term Inhalation5.3 mg/m³General populationSystemicDNELLong term Inhalation44 mg/m³WorkersSystemicDNELLong term Inhalation44 mg/m³WorkersSystemicDNELLong term Dermal137 mg/kg bw/dayGeneral populationSystemicDNELLong term Inhalation44 mg/m³WorkersSystemicDNELLong term Dermal137 mg/kg bw/dayGeneral populationSystemicDNELLong term Dermal137 mg/kg bw/dayGeneral populationSystemicDNELLong term | | | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| DNEL tetraethyl silicateDNEL DNEL Long term OralLong term Dermal DNEL Long term Oral1 mg/m³ 137 mg/kg bw/day 0.041 mg/kg bw/day 0.041 mg/kg bw/day 0.0421 mg/kg bw/day General population General population General population Systemic General population Local Local Local Local DNEL DNEL DNEL DNEL DNEL Long term Inhalation DNEL DNEL Long term Inhalation DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL DNEL Long term Dermal DNEL Long term Dermal DNEL DNEL DNEL Long term Dermal DNEL Long term Inhalation DNEL Long term Dermal DNEL< | | DNEL | Short term Inhalation | 293 mg/m ³ | | Local |
| DNEL tetraethyl silicateLong term Dermal DNEL DNEL DNELLong term Oral Short term Oral137 mg/kg bw/day 0.041 mg/kg bw/day 0.082 mg/kg bw/dayWorkers General population General population SystemicSystemic Systemictetraethyl silicateDNEL DNEL DNELLong term Dermal DNEL DNEL1.8 mg/kg bw/day 0.082 mg/kg bw/dayGeneral population General population LocalSystemic SystemicDNEL DNEL DNELDNEL DNEL Long term Inhalation DNEL DNELLong term Inhalation DNEL Long term Inhalation5.3 mg/m³ General population General population SystemicGeneral population SystemicLocal SystemicDNEL DNEL DNELLong term Inhalation DNEL Long term Inhalation5.3 mg/m³ General populationGeneral population SystemicSystemicDNEL <b< td=""><td>copper(II) oxide</td><td>DNEL</td><td>Long term Inhalation</td><td>1 mg/m³</td><td>Workers</td><td>Local</td></b<> | copper(II) oxide | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Local |
| DNEL tetraethyl silicateDNEL DNEL DNELLong term Oral Short term Oral0.041 mg/kg bw/day 0.082 mg/kg bw/dayGeneral population General populationSystemic Systemictetraethyl silicateDNEL DNELLong term Dermal DNEL1.8 mg/kg bw/day 5.3 mg/m3General population General populationSystemic LocalDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL5.3 mg/m3 General populationGeneral population SystemicLocal SystemicDNEL DNELLong term Inhalation DNELLong term Inhalation DNEL5.3 mg/m3 General populationGeneral population SystemicSystemicDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL6.3 mg/kg bw/day 44 mg/m3WorkersLocal SystemiccopperDNEL DNELLong term Inhalation DNELLong term Inhalation Halation44 mg/m3 44 mg/m3WorkersSystemic SystemiccopperDNEL DNELLong term Dermal DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemiccopperDNEL DNELLong term Dermal DNEL273 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemiccopperDNEL DNELLong term Inhalation DNEL0.055 mg/m3General population General populationSystemic SystemiccopperDNEL DNELLong term Inhalation DNEL0.055 mg/m3General population General populationSys | | DNEL | Long term Inhalation | 1 mg/m³ | Workers | Systemic |
| DNEL tetraethyl silicateDNEL DNEL DNEL DNEL DNELShort term Oral Long term Dermal DNEL Short term Inhalation DNEL< | | DNEL | Long term Dermal | 137 mg/kg bw/day | Workers | Systemic |
| tetraethyl silicateDNEL DNELLong term Dermal Short term Inhalation DNEL1.8 mg/kg bw/day S.3 mg/m³General population General populationSystemic Local LocalDNEL DNELDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL5.3 mg/m³ S.3 mg/m³General population General populationSystemic LocalDNEL DNELShort term Inhalation DNELDNEL Long term Dermal DNELShort term Inhalation DNEL5.3 mg/m³ S.3 mg/m³General population General populationSystemic SystemicDNEL DNELLong term Dermal DNELShort term Inhalation DNEL44 mg/m³ 44 mg/m³Workers WorkersLocal LocalcopperDNEL DNEL DNELLong term Inhalation DNEL44 mg/m³ 137 mg/kg bw/dayWorkers General populationSystemic SystemiccopperDNEL DNEL DNEL DNELLong term Dermal DNEL DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELDNEL Long term Inhalation273 mg/kg bw/day DNEL DNELGeneral population SystemicSystemic SystemicCotadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation DNEL273 mg/kg bw/day DNELGeneral population SystemicLocal SystemicCotadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELDNEL DNELLong term Inhalation DNEL </td <td></td> <td>DNEL</td> <td>Long term Oral</td> <td>0.041 mg/kg bw/day</td> <td>General population</td> <td>Systemic</td> | | DNEL | Long term Oral | 0.041 mg/kg bw/day | General population | Systemic |
| DNEL DNELShort term Inhalation DNEL5.3 mg/m³ S mg/m³General population General populationLocal LocalDNEL DNELShort term Inhalation DNELShort term Inhalation DNEL5.3 mg/m³ S mg/m³General population General populationLocal LocalDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL5.3 mg/m³ S mg/m³General population General populationSystemic SystemicDNEL DNELLong term Inhalation DNELShort term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersLocal SystemiccopperDNEL DNELLong term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersSystemic SystemiccopperDNEL DNELLong term Inhalation DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population WorkersSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation0.055 mg/m³General population UNELSystemic Systemic | | DNEL | Short term Oral | 0.082 mg/kg bw/day | General population | Systemic |
| DNEL DNEL DNELLong term Inhalation DNEL5.3 mg/m³ Sight term Inhalation Sight term InhalationGeneral population Sight term InhalationLocal SystemicDNEL DNELLong term Inhalation DNEL5.3 mg/m³ Sight term InhalationGeneral population Sight term InhalationSystemic SystemicDNEL DNELLong term Inhalation DNEL44 mg/m³ MorkersWorkers WorkersLocal SystemicDNEL DNELShort term Inhalation DNEL44 mg/m³ MorkersWorkers WorkersLocal SystemiccopperDNEL DNEL DNELLong term Inhalation DNEL44 mg/m³ MorkersWorkers WorkersSystemic SystemiccopperDNEL DNEL DNEL DNEL DNELLong term Dermal DNEL Short term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day O.055 mg/m³General population WorkersSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNEL Long term Inhalation273 mg/kg bw/day 0.055 mg/m³General population Systemic Systemic DNEL Long term InhalationLocal | tetraethyl silicate | DNEL | Long term Dermal | 1.8 mg/kg bw/day | General population | Systemic |
| DNEL DNELShort term Inhalation DNEL5.3 mg/m³ General populationGeneral population SystemicSystemic SystemicDNEL DNELLong term Inhalation DNELLong term Dermal DNEL6.3 mg/kg bw/day 44 mg/m³WorkersSystemic SystemicDNEL DNELShort term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersLocal LocalDNEL DNELShort term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersLocal SystemiccopperDNEL DNELLong term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersSystemic SystemiccopperDNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemicCoctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation DNEL273 mg/kg bw/day DNELGeneral population SystemicSystemic Systemic | | DNEL | Short term Inhalation | 5.3 mg/m ³ | General population | Local |
| DNEL DNELLong term Inhalation DNEL5.3 mg/m³ General populationGeneral population SystemicSystemic SystemicDNEL DNELDNEL DNELShort term Inhalation DNEL44 mg/m³ 44 mg/m³Workers WorkersLocal LocalDNEL DNELLong term Inhalation DNELLong term Inhalation DNEL44 mg/m³ 44 mg/m³Workers WorkersLocal SystemiccopperDNEL DNELLong term Inhalation DNELLong term Inhalation Long term Inhalation44 mg/m³ 44 mg/m³Workers WorkersSystemic SystemiccopperDNEL DNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation Long term Inhalation0.055 mg/m³General population General populationSystemic Systemic | | DNEL | Long term Inhalation | 5.3 mg/m ³ | General population | Local |
| DNEL DNELLong term Dermal DNEL6.3 mg/kg bw/day 44 mg/m³WorkersSystemic LocalDNEL DNELShort term Inhalation DNELLong term Inhalation DNEL44 mg/m³WorkersLocalcopperDNEL DNELLong term Inhalation DNELLong term Inhalation Long term Inhalation DNEL44 mg/m³WorkersSystemiccopperDNEL DNELLong term Dermal DNELLong term Dermal DNEL137 mg/kg bw/day Long term Dermal DNEL137 mg/kg bw/day SystemicGeneral population SystemicSystemic SystemicCotadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation0.055 mg/m³General population Unit and the systemicSystemic Systemic | | DNEL | Short term Inhalation | 5.3 mg/m ³ | General population | Systemic |
| DNEL DNEL DNELShort term Inhalation Long term Inhalation DNEL44 mg/m³ 44 mg/m³Workers WorkersLocal LocalcopperDNEL DNELShort term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersSystemic SystemiccopperDNEL DNELLong term Inhalation DNELLong term Inhalation Long term Inhalation44 mg/m³ 44 mg/m³WorkersSystemic SystemiccopperDNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNEL NELLong term Inhalation0.055 mg/m³General population SystemicSystemic Systemic | | DNEL | Long term Inhalation | 5.3 mg/m ³ | General population | Systemic |
| DNEL DNELLong term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersLocal SystemiccopperDNEL DNELLong term Inhalation DNEL44 mg/m³ 44 mg/m³WorkersSystemiccopperDNEL DNELLong term Dermal DNEL137 mg/kg bw/day 137 mg/kg bw/dayGeneral population SystemicSystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation273 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic Systemic | | DNEL | Long term Dermal | 6.3 mg/kg bw/day | Workers | Systemic |
| copperDNEL DNELShort term Inhalation Long term Inhalation DNEL44 mg/m³ 44 mg/m³Workers WorkersSystemic SystemiccopperDNEL DNELLong term Dermal DNEL137 mg/kg bw/day 137 mg/kg bw/dayGeneral population WorkersSystemic SystemicDNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/dayGeneral population SystemicSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELShort term Dermal DNEL273 mg/kg bw/day DNELGeneral population SystemicSystemic Systemic | | DNEL | Short term Inhalation | 44 mg/m³ | Workers | Local |
| copperDNEL DNELLong term Inhalation Long term Dermal44 mg/m³ 137 mg/kg bw/day 137 mg/kg bw/day 137 mg/kg bw/dayWorkers General population SystemicSystemic SystemiccopperDNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/dayWorkers General population SystemicSystemic SystemicOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation0.055 mg/m³Workers General population UNELSystemic Systemic | | DNEL | Long term Inhalation | 44 mg/m ³ | Workers | Local |
| copperDNEL DNELLong term Dermal Long term Dermal DNEL137 mg/kg bw/day 137 mg/kg bw/day 273 mg/kg bw/day Cotadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNEL DNELLong term Dermal Dermal Long term Inhalation137 mg/kg bw/day 137 mg/kg bw/day 273 mg/kg bw/day 0.055 mg/m³General population Systemic Systemic Systemic Systemic Local | | DNEL | Short term Inhalation | 44 mg/m ³ | Workers | Systemic |
| DNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day 0.055 mg/m³Workers General population WorkersSystemic Systemic Systemic LocalOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation0.055 mg/m³WorkersSupport SystemicSystemic Systemic | | DNEL | Long term Inhalation | 44 mg/m ³ | Workers | Systemic |
| DNEL DNELLong term Dermal DNEL137 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day 273 mg/kg bw/day 0.055 mg/m³Workers General population WorkersSystemic Systemic Systemic LocalOctadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNELLong term Inhalation0.055 mg/m³WorkersSupport SystemicSystemic Systemic | copper | DNEL | Long term Dermal | 137 mg/kg bw/day | General population | Systemic |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamineDNEL DNELShort term Dermal Long term Inhalation273 mg/kg bw/day 0.055 mg/m³WorkersSystemic Local | | DNEL | Long term Dermal | 137 mg/kg bw/day | | |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | | DNEL | Short term Dermal | 273 mg/kg bw/day | General population | Systemic |
| 12-hydroxy-, reaction products with ethylenediamine | | DNEL | Short term Dermal | 273 mg/kg bw/day | Workers | Systemic |
| products with ethylenediamine | Octadecanoic acid, | DNEL | Long term Inhalation | 0.055 mg/m ³ | General population | Local |
| ethylenediamine | 12-hydroxy-, reaction | | | | | |
| | products with | | | | | |
| DNEL Long term Inhalation 0.308 mg/m ³ Workers Local | ethylenediamine | | | | | |
| | | DNEL | Long term Inhalation | 0.308 mg/m ³ | Workers | Local |

PNECs

| Product/ingredient name | Туре | Compartment Detail | Value | Method Detail |
|-------------------------|------|------------------------|-----------------|--------------------------|
| dicopper oxide | - | Fresh water | 0.0078 mg/l | - |
| | - | Fresh water sediment | 87.1 mg/kg dwt | - |
| | - | Marine water | 0.0056 mg/l | - |
| | - | Marine water sediment | 676 mg/kg dwt | - |
| | - | Soil | 64.6 mg/kg dwt | - |
| | - | Sewage Treatment Plant | 0.23 mg/l | - |
| xylene | - | Fresh water | 0.327 mg/l | - |
| | - | Marine water | 0.327 mg/l | - |
| | - | Sewage Treatment Plant | 6.58 mg/l | - |
| | - | Fresh water sediment | 12.46 mg/kg dwt | - |
| | - | Marine water sediment | 12.46 mg/kg dwt | - |
| | - | Soil | 2.31 mg/kg | - |
| ethylbenzene | - | Fresh water | 0.1 mg/l | Assessment Factors |
| | - | Marine water | 0.01 mg/l | Assessment Factors |
| | - | Sewage Treatment Plant | 9.6 mg/l | Assessment Factors |
| | - | Fresh water sediment | 13.7 mg/kg dwt | Equilibrium Partitioning |
| | - | Marine water sediment | 1.37 mg/kg dwt | Equilibrium Partitioning |
| | - | Soil | 2.68 mg/kg dwt | Equilibrium Partitioning |
| | - | Secondary Poisoning | 20 mg/kg | - |
| zinc oxide | - | Fresh water | 20.6 µg/l | Sensitivity Distribution |
| | - | Marine water | 6.1 µg/l | Sensitivity Distribution |
| | - | Fresh water sediment | 117 mg/kg dwt | Sensitivity Distribution |
| | - | Sewage Treatment Plant | 52 µg/l | Assessment Factors |
| English (GB) | | Europe | | 9/20 |

| ode : 00454501 GMA SAILADVANCE DX BL | ACK | | Date of issue/Date of | of revision | : 11 September 2024 |
|---|--|---|---|---|--|
| SECTION 8: Exposur | e con | trols/p | ersonal protectior | ו | |
| rosin | | - - - - - | Marine water sediment Soil Fresh water Marine water Sewage Treatment Plant Fresh water sediment Marine water sediment Soil | 56.5 mg/kg dwt 35.6 mg/kg dwt 0.002 mg/l 0 mg/l 1000 mg/l 0.007 mg/kg dwt 0.001 mg/kg dwt 0 mg/kg dwt | Assessment Factors Sensitivity Distribution Assessment Factors Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning |
| 3.2 Exposure controls | | | | | |
| Appropriate engineering controls | or o any vap ven | ther engir recomme | adequate ventilation. Use neering controls to keep wo ended or statutory limits. Th st concentrations below any uipment. | orker exposure to air he engineering cont | rborne contaminants belov trols also need to keep gas |
| Individual protection measu | | | | | |
| Hygiene measures | eati App Cor con | ng, smoki propriate te taminated taminated | forearms and face thoroug ng and using the lavatory a echniques should be used d work clothing should not b clothing before reusing. E close to the workstation loc | and at the end of the to remove potential be allowed out of the Ensure that eyewash | e working period. ly contaminated clothing. e workplace. Wash |
| Eye/face protection | : Che | emical spla | ash goggles and face shiel | d. Use eye protecti | on according to EN 166. |
| Skin protection | | | | | |
| Hand protection | wor is n duri note glov prot freq (bre Wh (bre The proc | n at all tim eccessary. ng use that ed that the re manufa ection tim uently rep akthrough user mus duct is the | istant, impervious gloves c nes when handling chemica Considering the paramete at the gloves are still retain the gloves are still retain to breakthrough for a focturers. In the case of mix the of the gloves cannot be a beated contact may occur, a time greater than 480 min ief contact is expected, a g the time greater than 30 min to the gloves and take to the user's risk assessment | al products if a risk a ers specified by the ing their protective p any glove material m tures, consisting of accurately estimated a glove with a protection utes according to En love with a protection tes according to En e of type of glove se es into account the p | assessment indicates this glove manufacturer, check properties. It should be hay be different for different several substances, the d. When prolonged or ction class of 6 EN 374) is recommended. on class of 2 or higher N 374) is recommended. elected for handling this |
| Gloves | : buty | /l rubber | | | |
| Body protection | beir han stat sho | ng perform dling this ic protecti uld includ | ective equipment for the bo ned and the risks involved a product. When there is a r ve clothing. For the greate e anti-static overalls, boots er information on material | and should be appro isk of ignition from s st protection from s and gloves. Refer | oved by a specialist before static electricity, wear anti- tatic discharges, clothing to European Standard EN |

Other skin protection Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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|---|--|
| SECTION 8: Exposu | e controls/personal protection |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator |

| | complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3 |
|---------------------------------|---|
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

| 5 | ing ingredient: tetra | ethyl silicate. V | °C (-116.5°F) This is based Veighted average: -94.41° nethyl silicate) |
|---|--|--|--|
| Characteristic. Not available. May start to solidify a on data for the follow (-137.9°F) >37.78°C Not available. | ing ingredient: tetra | ethyl silicate. V | Veìghted avérage: -94.41⁰ |
| Not available. May start to solidify a on data for the follow (-137.9°F) >37.78°C Not available. | ing ingredient: tetra | ethyl silicate. V | Veìghted avérage: -94.41⁰ |
| May start to solidify a on data for the follow (-137.9°F) >37.78°C Not available. | ing ingredient: tetra | ethyl silicate. V | Veìghted avérage: -94.41⁰ |
| on data for the follow (-137.9°F) : >37.78°C : Not available. | ing ingredient: tetra | ethyl silicate. V | Veìghted avérage: -94.41⁰ |
| : Not available. | e: Lower: 1.3% Upj | per: 23% (tetra | aethyl silicate) |
| | e: Lower: 1.3% Up | per: 23% (tetra | aethyl silicate) |
| : Greatest known rang | e: Lower: 1.3% Up | per: 23% (tetra | aethyl silicate) |
| | | | |
| : Closed cup: 22°C | | | |
| : | | | |
| Ingredient name | °C | °F | Method |
| xylene | 432 | 809.6 | |
| : Stable under recomm | lended storage and | handling conc | litions (see Section 7). |
| : Not applicable. insolu | ble in water. | - | |
| : Kinematic (40°C): >2 | 1 mm²/s | | |
| : | | | |
| Result | | | |
| Not soluble | | | |
| | Stable under recomm Not applicable. insolu Kinematic (40°C): >2 Result | Image: state of the state | Image: state of the state |

water

Vapour pressure

| | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|-----------------|-------------------------|-----|--------|-------------------------|-----|--------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| ethylbenzene | 9.30076 | 1.2 | | | | |

English (GB)

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|---|--|--------|--|--|--|
| SECTION 9: Physical and chemical properties | | | | | |
| Evaporation rate : Highest known value: 0.84 (ethylbenzene) Weighted average: 0.79compared with | | | | | |

| | butyl acetate |
|--------------------------|---|
| Relative density | : 1.66 |
| Vapour density | : Highest known value: 7.22 (Air = 1) (tetraethyl silicate). Weighted average: 3.85 (Air = 1) |
| Explosive properties | The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible. |
| Oxidising properties | : Product does not present an oxidizing hazard. |
| Particle characteristics | |
| Median particle size | : Not applicable. |
| 9.2 Other information | |
| | |

No additional information.

SECTION 10: Stability and reactivity

| | <i>.</i> |
|--|---|
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8. |
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides sulfur oxides metal oxide/oxides |

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 |
|---|---------------------------|---------|-------------------------|----------|
| dicopper oxide | LC50 Inhalation Dusts and | Rat | 3.34 mg/l | 4 hours |
| | mists | | - | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 500 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| • | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| zinc oxide | LC50 Inhalation Dusts and | Rat | >5700 mg/m ³ | 4 hours |
| | mists | | C C | |
| | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| rosin | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | 7600 mg/kg | - |
| bis(1-hydroxy-1H-pyridine-2-thionato-O,S) | LC50 Inhalation Dusts and | Rat | 70 mg/m³ | 4 hours |
| English (GB) | Europe | • | 1 | 12/20 |

| Conforms to Regulation (EC) | b. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) | |
|-----------------------------|--|--|
| 2020/878 | | |

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SECTION 11: Toxicological information

| mists | | | |
|---------------------------|--|--|---|
| LD50 Oral | Rat | 1075 mg/kg | - |
| LD50 Oral | Rat | >2000 mg/kg | - |
| LC50 Inhalation Dusts and | Rat | 10 to 16 mg/l | 4 hours |
| mists | | | |
| LD50 Dermal | Rabbit | 5.878 g/kg | - |
| LD50 Oral | Rat | 6270 mg/kg | - |
| LC50 Inhalation Dusts and | Rat | 0.16 mg/l | 4 hours |
| mists | | - | |
| LD50 Dermal | Rabbit | 3.9 g/kg | - |
| LD50 Oral | Rat | 567 mg/kg | - |
| LC50 Inhalation Dusts and | Rat | >5.11 mg/l | 4 hours |
| mists | | | |
| LC50 Inhalation Dusts and | Rat | 5.05 mg/l | 4 hours |
| mists | | - | |
| LD50 Oral | Rat | >2000 mg/kg | - |
| LC50 Inhalation Dusts and | Rat | 0.27 mg/l | 4 hours |
| mists | | | |
| LD50 Dermal | Rabbit | 311 mg/kg | - |
| LD50 Oral | Rat | 125 mg/kg | - |
| | LD50 Oral LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Dermal LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists LD50 Oral LC50 Inhalation Dusts and mists | LD50 OralRatLD50 OralRatLD50 OralRatLC50 Inhalation Dusts andRatmistsRatLD50 DermalRatLD50 OralRatLC50 Inhalation Dusts andRatmistsRatLD50 DermalRatLD50 DermalRatLD50 DermalRatLD50 OralRatLD50 OralRatLC50 Inhalation Dusts andRatmistsLC50 Inhalation Dusts andLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRat | LD50 OralRat1075 mg/kgLD50 OralRat>2000 mg/kgLC50 Inhalation Dusts andRat10 to 16 mg/lmistsLD50 DermalRat6270 mg/kgLD50 OralRat6270 mg/kgLD50 OralRat0.16 mg/lLD50 DermalRat0.16 mg/lmistsRat567 mg/kgLD50 DermalRat567 mg/kgLD50 DermalRat567 mg/kgLD50 DermalRat567 mg/kgLD50 OralRat567 mg/kgLC50 Inhalation Dusts andRat5.05 mg/lmistsLD50 OralRat2000 mg/kgLC50 Inhalation Dusts andRat5.05 mg/lmistsLD50 OralRat2000 mg/kgLC50 Inhalation Dusts andRat0.27 mg/lmistsLD50 OralRat311 mg/kg |

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

| Route | ATE value |
|------------------------------|----------------|
| Øral | 1291.88 mg/kg |
| Dermal | 10478.03 mg/kg |
| Inhalation (vapours) | 48.42 mg/l |
| Inhalation (dusts and mists) | 2.18 mg/l |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| x ylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |

Conclusion/Summary

Skin

: There are no data available on the mixture itself.

Eyes

- : There are no data available on the mixture itself.
- Respiratory
- : There are no data available on the mixture itself.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|--|-------------------|------------|-------------|
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | skin | Guinea pig | Sensitising |
| octhilinone (ISO) | skin | Mouse | Sensitising |
| Conclusion/Summany | | • | * |

| Conclusion/Summary | |
|---------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| Mutagenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Carcinogenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Reproductive toxicity | |
| | |

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| 0.014.4 | | | | |

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SECTION 11: Toxicological information

Conclusion/Summary : There are no data available on the mixture itself.

Teratogenicity

Conclusion/Summary : There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--|------------|-------------------|------------------------------|
| xylene | Category 3 | - | Respiratory tract irritation |
| tetraethyl silicate | Category 3 | | Respiratory tract irritation |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | Category 3 | | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|----------------|
| ethylbenzene | Category 2 | - | hearing organs |

Aspiration hazard

| Aspiration hazard | | |
|--|--|--|
| Produc | t/ingredient name | Result |
| xylene ethylbenzene | | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |
| Information on likely routes of exposure | : Not available. | |
| Potential acute health effe | ects | |
| Inhalation | : Harmful if inhaled. | |
| Ingestion | : Harmful if swallowed. | |
| Skin contact | : Causes skin irritation. D | Defatting to the skin. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye dan | nage. |
| Symptoms related to the p | ohysical, chemical and toxic | ological characteristics |
| Inhalation | : No specific data. | |
| Ingestion | : Adverse symptoms may stomach pains | include the following: |
| Skin contact | : Adverse symptoms may pain or irritation redness dryness cracking blistering may occur | include the following: |
| Eye contact | : Adverse symptoms may pain watering redness | include the following: |
| Delayed and immediate ef | <u>fects as well as chronic effe</u> | cts from short and long-term exposure |
| Short term exposure | | |
| Potential immediate effects | : Not available. | |
| Potential delayed effect | s : Not available. | |
| Long term exposure Potential immediate effects | : Not available. | |

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SECTION 11: Toxicological information

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

| Conclusion/Summary | : Not available. |
|---------------------------|--|
| General | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |
| Other information | : Not available. |

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--|---|--|---------------|
| dicopper oxide | LC50 0.003 mg/l | Fish | 96 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh | Daphnia | 48 hours |
| zinc oxide | water Chronic NOEC 1 mg/l Fresh water Acute EC50 0.17 mg/l | Daphnia - <i>Ceriodaphnia dubia</i> Algae | - 72 hours |
| | Acute EC50 0.481 mg/l Fresh water | Daphnia - <i>Daphnia</i> | 48 hours |
| | Chronic NOEC 0.017 mg/l Fresh water | <i>magna</i> - Neonate Algae | 72 hours |
| 4,5-dichloro-2-octyl-2H-isothiazol-3-one | Acute EC50 267.368 µg/l Marine water | Algae - Nitzschia pungens | 96 hours |
| | Acute LC50 0.318 mg/l Marine water | Crustaceans - <i>Artemia sp.</i> | 48 hours |
| | Acute LC50 0.0027 mg/l Fresh water | Fish | 96 hours |
| | Chronic NOEC 19.789 µg/l Marine water | Algae - Nitzschia pungens | 96 hours |
| | Chronic NOEC 0.00056 mg/l Fresh water | Fish | 97 days |
| copper | Acute LC50 810 ppb | Fish | 96 hours |
| | Chronic EC10 8.1 µg/l | Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate | 21 days |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | Acute EC50 >100 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 >10 mg/l | Daphnia - <i>Daphnia</i> | 48 hours |
| English (GB) | Europe | · | 15/20 |

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SECTION 12: Ecological information

| | Acute LC50 >10 mg/l | magna Fish - Oncorhynchus mykiss | 96 hours |
|--------------------|---|--|----------|
| Conclusion/Summary | • There are no data available on the mixture itself | | |

conclusion/Summary I here are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|--|------|----------|
| ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | - 301D Ready Biodegradability - Closed Bottle Test | 79 % - Readily - 10 days 22 % - 28 days | - | - |

Conclusion/Summary : There are no data available on the mixture itself.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|-------------|--------------------------------|
| ✓ylene ethylbenzene Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | - - - | - - - | Readily Readily Inherent |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--|------------|-------------|-----------|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| rosin | 1.9 to 7.7 | - | High |
| tetraethyl silicate | 3.18 | - | Low |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | >5.86 | - | High |
| octhilinone (ISO) | 2.45 | - | Low |

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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| | | | |

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SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

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

Hazardous waste

European waste catalogue (EWC)

| Waste code | Waste designation | | |
|---------------------|---|--|--|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances | | |
| 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. | | |
| Type of packaging | European waste catalogue (EWC) | | |
| Container | 15 01 06 mixed packaging | | |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. | | |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | ΙΑΤΑ |
|------------------------------------|-----------------|-----------------|------------------|---|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT | PAINT | PAINT | PAINT |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | II | II | II | П |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | (dicopper oxide) | Not applicable. |

Additional information

| English (GB) | Europe | 17/20 |
|--------------|--------|-------|
|--------------|--------|-------|

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SECTION 14: Transport information

| | - |
|-------------------------------------|---|
| ADR/RID | : The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| Tunnel code | : (D/E) |
| ADN | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
| IMDG | : The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg. |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |
| 14.6 Special pre user | cautions 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 tra bulk according | • |

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria Category

| F | P5c |
|---|-----|
| Е | - 1 |

Ε1

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

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| | | | • |

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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

EUH statement = CLP-specific Hazard statement

PNEC = Predicted No Effect Concentration

RRN = REACH Registration Number

PBT = Persistent, Bioaccumulative and Toxic

vPvB = Very Persistent and Very Bioaccumulative

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

IMDG = International Maritime Dangerous Goods

IATA = International Air Transport Association

Full text of abbreviated H statements

| H225 | Highly flammable liquid and vapour. |
|--|--|
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H311 | Toxic in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H373 | May cause damage to organs through prolonged or repeated |
| | exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |
| Full text of classifications [CLP/GHS] | |
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Asp. Tox. 1 | ASPIRATION HAZARD - Category 1 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Flam. Liq. 2 | FLAMMABLE LIQUIDS - Category 2 |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Skin Corr. 1 | SKIN CORROSION/IRRITATION - Category 1 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| | |

Skin Sens. 1BSKIN SENSITISATION - Category 1BSTOT RE 2SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE -

| English (| (GB) |
|-----------|------|
| | |

Skin Sens. 1A

SKIN SENSITISATION - Category 1A

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| SECTION 16: Other information | | |
| STOT SE 3 | Category 2 SPECIFIC TARGET ORGAN TOXICI Category 3 | TY - SINGLE EXPOSURE - |
| History Date of issue/ Date of : 11 September 2 revision | 2024 | |

| Date of previous issue | : 14 January 2023 |
|------------------------|-------------------|
|------------------------|-------------------|

: 1.01

Prepared by : EHS

Version

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