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

SAFETY DATA SHEET

Date of issue/Date of revision

: 30 December 2022 Version



: 1.02

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

| 1.1 Product identifier | |
|----------------------------------|---|
| Product name | : SIGMACOVER 246/410/430/620 HARDENER |
| Product code | : 00327794 |
| Product description | : |
| Product type | : Liquid. |
| Other means of identification | : Not available. |
| 1.2 Relevant identified uses | of the substance or mixture and uses advised against |
| Product use | : Professional applications, Used by spraying. |
| Use of the substance/ mixture | : Coating. |
| Uses advised against | : Product is not intended, labelled or packaged for consumer use. |

1.3 Details of the supplier of the safety data sheet

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 Classification according to UK CLP/GHS

Fam. Liq. 3, H226 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 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

| | Conforms to Regulation (EC) No | 1907/2006 (REACH), Annex II, as amended I | by UK REACH Regulation SI 2019/758 |
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| | | | |
| SECTION 2: Hazards | dentification | | |
| Hazard pictograms | | | |
| Signal word | : Danger | | |
| Hazard statements | May cause an allergic May cause respirator Suspected of damagi May cause damage t | burns and eye damage. c skin reaction. | |
| Precautionary statements | | | |
| Prevention | from heat, hot surface | es, protective clothing and eye or fa es, sparks, open flames and other ase to the environment. Do not bre | ignition sources. No |
| Response | : Collect spillage. | | |
| Storage | Not applicable. | | |
| Disposal | : Dispose of contents a and international regu P280, P210, P273, P | | l local, regional, national |
| 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 | <u>nts</u> | | |
| Containers to be fitted with child-resistant fastenings | : Not applicable. | | |
| Tactile warning of danger | Not applicable. | | |
| .3 Other hazards | | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : This mixture does no vPvB. | t contain any substances that are a | ssessed to be a PBT or a |
| Other hazards which do not result in classification | : Causes digestive trac cause irritation. | ct burns. Prolonged or repeated co | ntact may dry skin and |

SECTION 3: Composition/information on ingredients

| 1 | <i>l</i> ixture | | | |
|--|--|--------------|--|---------|
| 3.2 Mixtures : | | | | |
| Product/ingredient name | Identifiers | % | Classification | Туре |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1 | ≥25 - ≤50 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | [1] |
| nonylphenol | EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8 | ≥10 - ≤24 | Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 | [1] [3] |
| English (GB) | United P | (ingdom (UK) | | 2/1 |

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SECTION 3: Composition/information on ingredients

| | | | Repr. 2, H361fd | |
|-----------------------|-----------------------------------|-------------|---|------------|
| | | | Aquatic Acute 1, H400 | |
| | | | (M=10) | |
| | | | Aquatic Chronic 1, | |
| | | | H410 (M=10) | |
| ethylbenzene F | REACH #: | ≥10 - ≤25 | Flam. Liq. 2, H225 | [1] [2] |
| | 01-2119489370-35 | | Acute Tox. 4, H332 | |
| E | EC: 202-849-4 | | STOT RE 2, H373 | |
| (| CAS: 100-41-4 | | (hearing organs) | |
| | Index: 601-023-00-4 | | Asp. Tox. 1, H304 | |
| | | | Aquatic Chronic 3, | |
| | | | H412 | |
| 2-methylpropan-1-ol F | REACH #: | ≥10 - <20 | Flam. Liq. 3, H226 | [1] [2] |
| (| 01-2119484609-23 | | Skin Irrit. 2, H315 | |
| | EC: 201-148-0 | | Eye Dam. 1, H318 | |
| | CAS: 78-83-1 | | STOT SE 3, H335 | |
| | Index: 603-108-00-1 | | STOT SE 3, H336 | |
| 5 | REACH #: | ≥10 - ≤25 | Flam. Liq. 3, H226 | [1] [2] |
| | 01-2119488216-32 | | Acute Tox. 4, H312 | |
| | EC: 215-535-7 | | Acute Tox. 4, H332 | |
| | CAS: 1330-20-7 | | Skin Irrit. 2, H315 | |
| | Index: 601-022-00-9 | | Eye Irrit. 2, H319 | |
| | | | STOT SE 3, H335 | |
| | | >1.0 0.0 | Asp. Tox. 1, H304 | F41 |
| | REACH #: | ≥1.0 - ≤6.8 | Acute Tox. 4, H302 | [1] |
| | 01-2119560597-27 EC: 202-013-9 | | Acute Tox. 4, H312 Skin Corr. 1C, H314 | |
| | CAS: 90-72-2 | | Eye Dam. 1, H318 | |
| | Index: 603-069-00-0 | | Eye Dalli. 1, 11316 | |
| | EC: 203-950-6 | ≥1.0 - ≤4.0 | Acute Tox. 4, H302 | [1] |
| | CAS: 112-24-3 | -1.04.0 | Acute Tox. 4, H312 | ['] |
| | Index: 612-059-00-5 | | Skin Corr. 1B, H314 | |
| | | | Eye Dam. 1, H318 | |
| | | | Skin Sens. 1, H317 | |
| | | | Aquatic Chronic 3, | |
| | | | H412 | |
| p-nonylphenol E | EC: 203-199-4 | ≤0.30 | Acute Tox. 4, H302 | [1] [3] |
| | CAS: 104-40-5 | | Skin Corr. 1B, H314 | |
| | | | Eye Dam. 1, H318 | |
| | | | Repr. 2, H361 | |
| | | | Aquatic Acute 1, H400 | |
| | | | (M=10) | |
| | | | Aquatic Chronic 1, | |
| | | | H410 (M=10) | |
| | | | See Section 16 for | |
| | | | the full text of the H | |
| | | | statements declared | |
| | | | above. | |

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. Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

SUB codes represent substances without registered CAS Numbers.

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SECTION 4: First aid measures

| 4.1 Description of first aid n | neasures |
|--------------------------------|---|
| 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 | : | May cause respiratory irritation. |
| Skin contact | : | Causes severe burns. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : | Corrosive to the digestive tract. Causes burns. |
| Over-exposure signs/sympt | on | <u>15</u> |
| Eye contact | : | Adverse symptoms may include the following: pain watering redness |
| Inhalation | : | Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations |
| Skin contact | : | Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations |
| Ingestion | : | Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations |
| 4.3 Indication of any immedia | ate | 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: Firefigh | iting measure | es s | |
| 5.1 Extinguishing media Suitable extinguishing media | : Use dry chemi | cal, CO ₂ , water spray (fog) or foam. | |
| Unsuitable extinguishing media | : Do not use wa | ter jet. | |
| 5.2 Special hazards arising | from the substance | e or mixture | |
| Hazards from the substance or mixture | In a fire or if he the risk of a su long lasting eff | uid and vapour. Runoff to sewer may crea eated, a pressure increase will occur and t ibsequent explosion. This material is very fects. Fire water contaminated with this m from being discharged to any waterway, s | the container may burst, with toxic to aquatic life with aterial must be contained |
| Hazardous combustion products | : Decomposition carbon oxides nitrogen oxides | | rials: |

| 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. 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. |

SECTION 6: Accidental release measures

| 6.1 Personal precautions, | , protective equipment and emergency procedures |
|---------------------------|---|
| For non-emergency | : No action shall be taken involving any personal risk or without suitable training. |
| personnel | 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 Castion 0 on avitable and unavitable materials. Cas also the | |

information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains 6.2 Environmental precautions 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 disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------|---|
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for |

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SECTION 6: Accidental release measures

emergency contact information and Section 13 for waste disposal.

6.4 Reference to other
sections: See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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).

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. TWA: 441 mg/m ³ 8 hours. TWA: 100 ppm 8 hours. |
| 2-methylpropan-1-ol | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 231 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |
| xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. |

procedures

Recommended monitoring : 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.

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|--|------|---|------------------------|-------------------------------|----------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | DNEL | Long term Oral | 0.56 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.56 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.97 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 1.1 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 3.9 mg/m ³ | Workers | Systemic |
| ethylbenzene | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | |
| ettybenzene | DNEL | Long term Inhalation | 15 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 77 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| | DMEL | Short term Inhalation | 884 mg/m ³ | Workers | Systemic |
| 2 mothylpropen 1 ol | DNEL | | 55 mg/m ³ | | |
| 2-methylpropan-1-ol | DNEL | Long term Inhalation | 310 mg/m ³ | General population Workers | Local |
| xylene | DNEL | Short term Inhalation | 260 mg/m ³ | General population | |
| xylerie | DNEL | Short term Inhalation | 260 mg/m ³ | General population | |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | |
| | DNEL | Long term Oral | 12.5 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 221 mg/m^3 | Workers | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| | DNEL | | 221 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | | | Workers | |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | | Systemic |
| | | Long term Inhalation | 65.3 mg/m ³ | General population | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Local |
| | DNEL | Long term Oral | 12.5 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | |
| | 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/m³ | Workers | Systemic |

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SECTION 8: Exposure controls/personal protection

| | DNEL DNEL | Short term Inhalation Short term Inhalation | 442 mg/m ³ 442 mg/m ³ | Workers Workers | Local Systemic |
|-----------------------------|--------------|--|--|--------------------|-------------------|
| 2,4,6-tris | DNEL | Long term Oral | 0.075 mg/kg bw/day | General population | |
| (dimethylaminomethyl)phenol | | | | | |
| | DNEL | Short term Dermal | 0.075 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.075 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 0.13 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 0.13 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.15 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.53 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 0.6 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 2.1 mg/m ³ | Workers | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|------------------------|------------------|--------------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Fresh water | 0.043 mg/l | Assessment Factors |
| | Marine water | 0 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 3.84 mg/l | Assessment Factors |
| | Fresh water sediment | 434.02 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 43.4 mg/kg dwt | Equilibrium Partitioning |
| | Soil | 86.78 mg/kg dwt | Equilibrium Partitioning |
| 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 | - |
| 2-methylpropan-1-ol | Fresh water | 0.4 mg/l | Assessment Factors |
| | Marine water | 0.04 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 10 mg/l | Assessment Factors |
| | Fresh water sediment | 1.56 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 0.156 mg/kg dwt | - |
| | Soil | 0.076 mg/kg dwt | Equilibrium Partitioning |
| 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 | - |

| 8.2 Exposure controls | | |
|----------------------------------|-----|---|
| Appropriate engineering controls | : | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. |
| Individual protection measu | res | |
| Hygiene measures | : | Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |
| Eye/face protection | 1 | Chemical splash goggles and face shield. |
| Skin protection | | |
| Hand protection | : | |

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SECTION 8: Exposure controls/personal protection

| | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. butyl rubber |
|---------------------------------|--|
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : 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

| <u>Appearance</u> | | | | |
|--|----------|--|-------------------|------------------------------------|
| Physical state | : Liquio | ł. | | |
| Colour | : Vario | us | | |
| Odour | : Arom | atic. | | |
| Odour threshold | : Not a | vailable. | | |
| Melting point/freezing point | data f | May start to solidify at the following temperature: 12°C (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted averag -60.98°C (-77.8°F) | | |
| Initial boiling point and boiling range | : >37.7 | ′8°C (>100°F) | | |
| Flammability (solid, gas) | : liquid | | | |
| Upper/lower flammability or explosive limits | : Great | test known ran | ge: Lower: 1.7% L | Jpper: 10.9% (2-methylpropan-1-ol) |
| Flash point | : 🕅 ose | d cup: 30.5°C | (86.9°F) | |
| Auto-ignition temperature | : | | | |
| Ingredient name | | °C | °F | Method |
| 3,6-diazaoctanethylenediamin | | 337.78 | 640 | |

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

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|-------------------------------------|--------------------------------|--------------------|
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SECTION 9: Physical and chemical properties

2

| Decomposition temperature | : | |
|---------------------------|--|--------|
| рН | : Not applicable. | |
| | Not applicable. insoluble in water. | |
| Viscosity | : Kinematic (40°C): >21 mm ² /s | |
| Solubility(ies) | : | Method |
| Media | Result | |
| cold water | Not soluble | |
| Missible with water | | |
| Miscible with water | : No. | |

Partition coefficient: n-octanol/ : Not applicable. water

Vapour pressure

| | Va | Vapour Pressure at 20°C | | | apour pressure at 50°C |
|--------------------------|---|-------------------------|------------------------|------------|------------------------------------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa |
| 2-methylpropan-1-ol | <12 | <1.6 | DIN EN 13016-2 | | |
| Relative density | : 0.91 | I | Į | | |
| Vapour density | : High 1) | nest known | value: 7.59 (Air = 1) | (nonylphen | ol). Weighted average: 4.81 (Air = |
| 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 | : Pro | duct does n | ot present an oxidizir | ng hazard. | |
| Particle characteristics | | | | | |
| Median particle size | : Not | applicable. | | | |

SECTION 10: Stability and reactivity

| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredient | ts. |
|--|--|--------|
| 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 pro Refer to protective measures listed in sections 7 and 8. | ducts. |
| 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 | |

SECTION 11: Toxicological information

11.1 Information on toxicological effects <u>Acute toxicity</u> Code : 00327794 Date of issue/Date of revision

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SECTION 11: Toxicological information

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| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|------------------------|---------|-------------|----------|
| Fatty acids, C18-unsatd., | LD50 Dermal | Rat | >2000 mg/kg | - |
| dimers, oligomeric reaction | | | | |
| products with tall-oil fatty | | | | |
| acids and | | | | |
| triethylenetetramine | | | | |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| nonylphenol | LD50 Dermal | Rabbit | 2.14 g/kg | - |
| | LD50 Oral | Rat | 580 mg/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 | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapour | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/kg | - |
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| 2,4,6-tris | LD50 Dermal | Rabbit | 1.28 g/kg | - |
| (dimethylaminomethyl) | | | | |
| phenol | | | | |
| | LD50 Dermal | Rat | 1280 mg/kg | - |
| | LD50 Oral | Rat | 1200 mg/kg | - |
| 3,6-diazaoctanethylenediamin | LD50 Dermal | Rabbit | 1465 mg/kg | - |
| | LD50 Oral | Rat | 1716 mg/kg | - |
| p-nonylphenol | LD50 Oral | Rat | 1620 mg/kg | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| SIGMACOVER 246/410/430/620 HARDENER | 2401.0 | 7881.8 | N/A | 52.6 | N/A |
| nonylphenol | 580 | 2140 | N/A | N/A | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | N/A |
| 2-methylpropan-1-ol | 2830 | 2460 | N/A | 24.6 | N/A |
| xylene | 4300 | 1700 | N/A | 11 | N/A |
| 2,4,6-tris(dimethylaminomethyl)phenol | 1200 | 1280 | N/A | N/A | N/A |
| 3,6-diazaoctanethylenediamin | 1716 | 1465 | N/A | N/A | N/A |
| p-nonylphenol | 1620 | N/A | N/A | N/A | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|--|-----------------|-------|--------------|-------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Irritant | Human | - | - | - |
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| 2,4,6-tris (dimethylaminomethyl)phenol | Skin - Visible necrosis | Rabbit | - | 4 hours | 7 days |
| Conclusion/Summary | Not available. | | | | |
| Skin | There are no data available or | the mixture its | self. | | |
| Eyes | There are no data available on the mixture itself. | | | | |
| Respiratory | There are no data available or | the mixture its | self. | | |

Respiratory

Code

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SECTION 11: Toxicological information

| | <u> </u> | | |
|--|--------------------|------------------------------------|-------------|
| Product/ingredient name | Route of exposure | Species | Result |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | skin | Mouse | Sensitising |
| 3,6-diazaoctanethylenediamin | skin | Guinea pig | Sensitising |
| Conclusion/Summary | • | | |
| Skin | : There are no dat | a available on the mixture itself. | |
| Respiratory | : There are no dat | a available on the mixture itself. | |
| <u>Mutagenicity</u> | | | |
| Conclusion/Summary | : There are no dat | a available on the mixture itself. | |
| Carcinogenicity | | | |
| Conclusion/Summary | : There are no dat | a available on the mixture itself. | |
| Reproductive toxicity | | | |
| Conclusion/Summary <u>Teratogenicity</u> | : There are no dat | a available on the mixture itself. | |
| 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 |
|-------------------------|--------------------------|-------------------|---|
| 2-methylpropan-1-ol | Category 3 | - | Respiratory tract irritation |
| xylene | Category 3 Category 3 | - | Narcotic effects 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

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| xylene | ASPIRATION HAZARD - Category 1 |

Information on likely routes : Not available.

of exposure

Potential acute health effects

- Eye contact : Causes serious eye damage.
- Inhalation : May cause respiratory irritation.
- **Skin contact** : Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
- : Corrosive to the digestive tract. Causes burns. Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact
- : Adverse symptoms may include the following: pain watering redness

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| | | | |

SECTION 11: Toxicological information

| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations |
|--------------|---|
| Skin contact | : Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations |

| : | Not available. |
|-----|---|
| : | Not available. |
| | |
| : | Not available. |
| 1 | Not available. |
| ect | <u>s</u> |
| | |
| : | Not available. |
| : | May cause damage to organs through prolonged or repeated exposure. 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. |
| : | No known significant effects or critical hazards. |
| : | No known significant effects or critical hazards. |
| : | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| : | Not available. |
| | : : : : : : : |

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|-------------------------------------|--|----------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | EC10 1.78 mg/l | Algae | 72 hours |
| nonylphenol | Acute EC50 0.056 mg/l Fresh water | Algae - Green algae - Desmodesmus subspicatus | 72 hours |
| | Chronic EC10 0.003 mg/l Fresh water | Algae - Green algae - Desmodesmus subspicatus | 72 hours |
| English (GB) | United Kingdom | (UK) | 13/1 |

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|---|---|--|--------------------------|--|-------------------------------|-----------|-----------|
| S | SECTION 12: Ecological information | | | | | | |
| | | | Chronic NOEC 1 µg/l Free | | Daphnia - Water flea magna | - Daphnia | 21 days |

| ethylbenzene 2-methylpropan-1-ol 2,4,6-tris (dimethylaminomethyl) phenol | Acute EC50 1.8 mg/l Fresh water | Tagna Daphnia Daphnia - Ceriodaphnia dubia Daphnia Fish | 48 hours - 48 hours 96 hours |
|--|---------------------------------|---|---------------------------------------|
| phenol | | | |

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum |
|---|-------------------|---------------------|----------|------|-----------------------------------|
| ethylbenzene | - | 79 % - Readily - 10 | days | - | - |
| Conclusion/Summary : Not available. | | | | | |
| Product/ingredient name | Aquatic half-life | | Photolys | is | Biodegradability |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine ethylbenzene xylene | - | | - | | Not readily Readily Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|------------------------------|---------------|-------------|-----------|
| nonylphenol | 3.28 | 154.88 | low |
| ethylbenzene | 3.6 | 79.43 | low |
| 2-methylpropan-1-ol | 1 | - | low |
| xylene | 3.12 | 7.4 to 18.5 | low |
| 2,4,6-tris | 0.219 | - | low |
| (dimethylaminomethyl) | | | |
| phenol | | | |
| 3,6-diazaoctanethylenediamir | -1.66 to -1.4 | - | low |
| p-nonylphenol | 5.76 | 380.19 | low |

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product

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|---|---|--|---|
| SECTION 13: Dispo | sal considera | tions | |
| Methods of disposal | Disposal of this with the require and any region recyclable proo disposed of un | n of waste should be avoided or minimised s product, solutions and any by-products s ements of environmental protection and w hal local authority requirements. Dispose ducts via a licensed waste disposal contra treated to the sewer unless fully complian with jurisdiction. | should at all times comply vaste disposal legislation of surplus and non- actor. Waste should not be |

Hazardous waste

| Waste code | Waste designation |
|------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |

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 | Waste catalogue | | |
|---------------------|---|---|--|
| Container | 15 01 06 mixed packaging | | |
| Special precautions | : This material and its container must be disposed of in a safe way. Care s taken when handling emptied containers that have not been cleaned or rin Empty containers or liners may retain some product residues. Vapour fror residues may create a highly flammable or explosive atmosphere inside t container. Do not cut, weld or grind used containers unless they have been thoroughly internally. Avoid dispersal of spilt material and runoff and cont soil, waterways, drains and sewers. | nsed out. om product he en cleaned | |

SECTION 14: Transport information

: Yes.

| | ADR/RID | ADN | IMDG | ΙΑΤΑ |
|------------------------------------|--------------------------------|--------------------------------|--------------------------------|---|
| 14.1 UN number | UN3469 | UN3469 | UN3469 | UN3469 |
| 14.2 UN proper shipping name | PAINT, FLAMMABLE, CORROSIVE | PAINT, FLAMMABLE, CORROSIVE | PAINT, FLAMMABLE, CORROSIVE | PAINT, FLAMMABLE, CORROSIVE |
| 14.3 Transport hazard class(es) | 3 (8) | 3 (8) | 3 (8) | 3 (8) |
| 14.4 Packing group | III | 111 | 111 | 111 |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | Not applicable. | (Polyamide, nonylphenol) | Not applicable. |

Additional information

| ADR/RID | The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. |
|---------|--|
| 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. |

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SECTION 14: Transport information

| 14.6 | S | р | e | C | ia |
|-------------|---|---|---|---|----|
| user | | | | | |

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

14.7 Transport in bulk: Not available.according to IMO

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

| Intrinsic property | Ingredient name | Status | Reference number | Date of revision |
|---|--|------------------------|---------------------|------------------|
| Substance of equivalent concern for environment | 4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof 4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof | Candidate Candidate | - | 12/19/2012 |

Ozone depleting substances

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 controlled under the Seveso Directive.

Danger criteria

| Category | |
|-----------|---|
| P5c E1 | |
| | 1 |

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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SECTION 16: Other information

| Abbreviations and | : ATE = Acute Toxicity Estimate |
|-------------------|---|
| | |
| acronyms | GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and |
| | Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 |
| | No. 720 and amendments |
| | DMEL = Derived Minimal Effect Level |
| | DNEL = Derived No Effect Level |
| | EUH statement = GB CLP-specific Hazard statement |
| | N/A = Not available |
| | PBT = Persistent, Bioaccumulative and Toxic |
| | PNEC = Predicted No Effect Concentration |
| | RRN = REACH Registration Number |
| | SGG = Segregation Group |
| | vPvB = Very Persistent and Very Bioaccumulative |

Procedure used to derive the classification

| Classification | Justification | |
|-------------------------|-----------------------|--|
| Mam. Liq. 3, H226 | On basis of test data | |
| Skin Corr. 1B, H314 | Calculation method | |
| Eye Dam. 1, H318 | Calculation method | |
| Skin Sens. 1, H317 | Calculation method | |
| Repr. 2, H361fd | Calculation method | |
| STOT SE 3, H335 | Calculation method | |
| STOT RE 2, H373 | Calculation method | |
| Aquatic Acute 1, H400 | Calculation method | |
| Aquatic Chronic 1, H410 | Calculation method | |

Full text of abbreviated H statements

| H225 | Highly flammable liquid and vapour. |
|--------|--|
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| 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. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications

| 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 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| 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 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| 1 | |

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|-------------------------------------|--------|--|
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SECTION 16: Other information

| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
|---------------------------------|---|
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
| History | |
| Date of issue/ Date of revision | : 12/30/2022 |
| Date of previous issue | e : 12/14/2022 |
| Prepared by | : EHS |
| Version | : 1.02 |
| _ | |

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