SAFETY DATA SHEET

Ireland

Date of issue/Date of revision : 16.03 : 29 August 2024 Version SECTION 1: Identification of the substance/mixture and of the company/ undertaking **1.1 Product identifier Product name** : SIGMACOVER 256/435/456/522 HARDENER **Product code** : 00141100 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** : Coating.; Hardener. Use of the substance/ 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 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 National advisory body/Poison Centre National Poison Information Centre at Beaumont Hospital. Tel: +353 1 8092566, email: npicdublin@beaumont.ie **Supplier** +31 20 4075210 **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Code : 00141100 | Date of issue/Date of revision | : 29 August 2024 |
|-------------------------------------|--------------------------------|------------------|
| SIGMACOVER 256/435/456/522 HARDENER | | |

SECTION 2: Hazards identification

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 3, H412

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 Hazard statements | Danger Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful 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. | |
| Response | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact ler present and easy to do. Continue rinsing. Immediately call a POISON CENTER doctor. | |
| Storage | : Store in a well-ventilated place. Keep container tightly closed. | |
| Disposal | : Dispose of contents and container in accordance with all local, regional, national international regulations. | and |
| | P280, P210, P305 + P351 + P338, P310, P403 + P233, P501 | |
| Hazardous ingredients | 2-methylpropan-1-ol Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines 3,6-diazaoctanethylenediamin | |
| 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 | nents | |
| Containers to be fitted with child-resistant fastenings | : Not applicable. | |
| English (GB) | Ireland | 2/19 |

| Code : 00141100 SIGMACOVER 256/435/456/522 HARDENER | Date of issue/Date of revision | : 29 August 2024 |
|--|--------------------------------|------------------|
| SECTION 2: Hazards identification | | |
| Tactile warning of danger : Not applicable. | | |

2.3 Other hazards

| 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 not result in classification | : Causes digestive tract burns. 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 |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≥25 - ≤50 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | - | [1] [2] |
| xylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥10 - ≤25 | 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] |
| Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines | CAS: 68410-23-1 | ≥10 - <25 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| ethylbenzene | REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 | ≥1.0 - ≤5.0 | 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] |
| 2,4,6-tris (dimethylaminomethyl) phenol | REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 | ≥1.0 - ≤3.5 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 | ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg | [1] |
| 3,6-diazaoctanethylenediamin | EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 | ≤1.4 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 | ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg | [1] |
| English (GB) | | | Ireland | | 3/19 |

| Code | : 00141100 | Date of issue/Date of revision | : 29 August 2024 | |
|---------|------------------------------|--------------------------------|------------------|--|
| SIGMACO | /ER 256/435/456/522 HARDENER | | | |

SECTION 3: Composition/information on ingredients

| | See Section 16 for the full text of the H statements declared above. | |
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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. <u>Type</u>

[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 e | fects |
|--------------------------|---|
| Eye contact | : Causes serious eye damage. |
| Inhalation | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression. |
| Over-exposure signs/sy | mptoms |
| Eye contact | : Adverse symptoms may include the following: pain watering |

| Code : 0014110 SIGMACOVER 256/435 | |
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| SECTION 4: Firs | t aid measures |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| 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 in | nmediate 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. |

SECTION 5: Firefighting measures

| 5.1 Extinguishing media 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 | : 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 harmful 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 |
| 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. |

Code : 00141100 Date

Date of issue/Date of revision

: 29 August 2024

SIGMACOVER 256/435/456/522 HARDENER

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency personnel | : | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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. |
| 6.3 Methods and material for | со | ntainment 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill 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. |

| 2020/878 | |
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| Code : 00141100 SIGMACOVER 256/435/456 | Date of issue/Date of revision : 29 August 2024 6/522 HARDENER |
| SECTION 7: Handli | ng and storage |
| 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 |

Section 10 for incompatible materials before handling or use.

containers. Use appropriate containment to avoid environmental contamination. See

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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

| Product/ingredient name | Exposure limit values |
|-------------------------|---|
| ₽-methylpropan-1-ol | NAOSH (Ireland, 5/2021). OELV: 225 mg/m ³ 15 minutes. OELV: 75 ppm 15 minutes. OELV: 150 mg/m ³ 8 hours. OELV: 50 ppm 8 hours. |
| xylene | NAOSH (Ireland, 5/2021). [xylene] Absorbed through skin. OELV: 442 mg/m ³ 15 minutes. OELV: 100 ppm 15 minutes. OELV: 221 mg/m ³ 8 hours. OELV: 50 ppm 8 hours. |
| ethylbenzene | NAOSH (Ireland, 5/2021). Absorbed through skin. OELV: 884 mg/m ³ 15 minutes. OELV: 200 ppm 15 minutes. OELV: 442 mg/m ³ 8 hours. OELV: 100 ppm 8 hours. |

Biological exposure indices

| Product/ingredient name | Exposure indices | | |
|-------------------------|---|------|--|
| Viene | NAOSH (Ireland, 1/2011) [Xylene] BMGV: 1.5 g/g creatinine, methylhippuric acids [in urine time: end of shift - As soon as possible after exposure c | | |
| ethylbenzene | Ibenzene NAOSH (Ireland, 1/2011) BMGV: Semi-quantitative, the biological analyte is exposure to the substance but the quantitative inter measurement is ambiguous. These analytes should | | |
| English (GB) | Ireland | 7/19 | |

Code : 00141100 Date of issue/Date of revision

: 29 August 2024

SIGMACOVER 256/435/456/522 HARDENER

SECTION 8: Exposure controls/personal protection

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Recommended monitoring procedures

: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|-----------------------------|------|-----------------------|------------------------|--------------------|----------|
| 2-methylpropan-1-ol | DNEL | Long term Inhalation | 55 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| xylene | DNEL | Long term Oral | 5 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | 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/m³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| Fatty acids, C18-unsatd., | DNEL | Long term Oral | 0.56 mg/kg bw/day | General population | Systemic |
| dimers, reaction products | | | | | |
| with polyethylenepolyamines | | | | | |
| | 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 | DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| - | DMEL | Short term Inhalation | 884 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Oral | 1.6 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 15 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 77 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 180 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 293 mg/m ³ | Workers | Local |
| 2,4,6-tris | DNEL | Long term Oral | 0.075 mg/kg bw/day | General population | Systemic |
| (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 |
| English (GB) | | | Ireland | | 8/19 |

Date of issue/Date of revision

: 29 August 2024

Code : 00141100

SIGMACOVER 256/435/456/522 HARDENER

SECTION 8: Exposure controls/personal protection

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| | 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 |
| 3,6-diazaoctanethylenediamin | DNEL | Long term Dermal | 28 µg/cm ² | Workers | Local |
| | DNEL | Long term Dermal | 0.25 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.29 mg/m ³ | General population | Systemic |
| | DNEL | Long term Oral | 0.41 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.43 mg/cm ² | General population | Local |
| | DNEL | Long term Dermal | 0.57 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 1 mg/cm ² | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 8 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 20 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 1600 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 5380 mg/m ³ | Workers | Systemic |
| | | | | | |

PNECs

| Product/ingredient name | Туре | Compartment Detail | Value | Method Detail |
|-------------------------|------|------------------------|-----------------|--------------------------|
| 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 | - |
| 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 | - |

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 | <u>res</u> |
| 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 | : Chemical splash goggles and face shield. Use eye protection according to EN 166. |
| Skin protection | |
| English (GB) | Ireland 9/19 |

| Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regu | lation (EU) |
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| 2020/878 | |

| 2020/878 | | - • • • |
|---------------------------------|--|--|
| Code : 00141100 | Date of issue/Date of revision : | 29 August 2024 |
| SIGMACOVER 256/435/456/52 | ENER | |
| SECTION 8: Exposure | trols/personal protection | |
| Hand protection | emical-resistant, impervious gloves complying with an ap in at all times when handling chemical products if a risk a eccessary. Considering the parameters specified by the g ing use that the gloves are still retaining their protective p ed that the time to breakthrough for any glove material m we manufacturers. In the case of mixtures, consisting of ection time of the gloves cannot be accurately estimated uently repeated contact may occur, a glove with a protect eakthrough time greater than 480 minutes according to E en only brief contact is expected, a glove with a protect akthrough time greater than 30 minutes according to EN user must check that the final choice of type of glove se duct is the most appropriate and takes into account the p included in the user's risk assessment. | 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 | <i>i</i> l rubber | |
| Body protection | sonal protective equipment for the body should be select ng performed and the risks involved and should be appro- dling this product. When there is a risk of ignition from s ic protective clothing. For the greatest protection from s uld include anti-static overalls, boots and gloves. Refer 9 for further information on material and design requiren | oved by a specialist before static electricity, wear anti- tatic discharges, clothing to European Standard EN |
| Other skin protection | ropriate footwear and any additional skin protection mea ed on the task being performed and the risks involved an pecialist before handling this product. | |
| Respiratory protection | pirator selection must be based on known or anticipated ards of the product and the safe working limits of the sel kers are exposed to concentrations above the exposure ropriate, certified respirators. Use a properly fitted, air-p aplying with an approved standard if a risk assessment in ar a respirator conforming to EN140. Filter type: organic iculate filter P3 | ected respirator. If limit, they must use urifying or air-fed respirator ndicates this is necessary. |
| Environmental exposure controls | ssions from ventilation or work process equipment shou comply with the requirements of environmental protecti es, fume scrubbers, filters or engineering modifications t be necessary to reduce emissions to acceptable levels. | on legislation. In some |

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

| <u>Appearance</u> | |
|--|---|
| Physical state | : Liquid. |
| Colour | : Not available. |
| Odour | : Amine-like. |
| Odour threshold | : Not available. |
| Melting point/freezing point | 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 average: -84.56°C (-120.2°F) |
| Initial boiling point and boiling range | : >37.78°C |
| Flammability | : Not available. |

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| Code : 00141100 | Date of issue/Date of revision : 29 August 2024 |
|--|--|
| SIGMACOVER 256/435/456/522 | HARDENER |
| SECTION 9: Physical a | nd chemical properties |
| Upper/lower flammability or explosive limits | : Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol) |
| Flash point | : Closed cup: 25°C |
| Auto-ignition temperature | : 430°C (806°F) |
| Decomposition temperature | : Stable under recommended storage and handling conditions (see Section 7) |
| рН | : Not applicable. insoluble in water. |
| Viscosity | : Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s |
| Viscosity | : 60 - 100 s (ISO 6mm) |
| Solubility(ies) | 1 · · · · · · · · · · · · · · · · · · · |
| Media | Result |
| | |

2

Vapour pressure

| | | | Vapour Pressure at 20°C | | Vap | Vapour pressure at 50°C | | |
|---------------------------|---|---|-------------------------|-----------|-------------------|-------------------------|------------|-------------|
| | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | ₽ methylpropan-1-ol | <12.00102 | <1.6 | DIN EN 13016-2 | | | |
| Evaporation rate | : | Highest known value butyl acetate | e: 0.84 (et | hylbenz | ene) Weighte | d averag | e: 0.71co | mpared with |
| Relative density | : | 0.95 | | | | | | |
| Vapour density | : | Highest known value average: 3.17 (Air = | | lir = 1) | (3,6-diazaoctar | nethylene | ediamin). | Weighted |
| Explosive properties | : | The product itself is vapour or dust with a | • | | t the formation | of an ex | plosible n | nixture of |
| Oxidising properties | : | Product does not pro | esent an o | oxidizing | g hazard. | | | |
| Particle characteristics | | | | | | | | |
| Median particle size | : | Not applicable. | | | | | | |
| 9.2 Other information | | | | | | | | |
| No additional information | | | | | | | | |

No additional information.

SECTION 10: Stability and reactivity

| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
|--|---|
| 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. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.2 Chemical stability | : The product is stable. |
| 10.1 Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |

Code : 00141100

Date of issue/Date of revision

: 29 August 2024

SIGMACOVER 256/435/456/522 HARDENER

SECTION 10: Stability and reactivity

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------------------|------------------------|---------|------------|----------|
| ₽-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 | - |
| 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 | - |
| 2,4,6-tris(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 | - |

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

Acute toxicity estimates

| Route | ATE value | |
|----------------------|---------------|--|
| Oral | 37508.2 mg/kg | |
| Dermal | 6197.43 mg/kg | |
| Inhalation (vapours) | 43.22 mg/l | |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-----------------|-------------|
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| 0 | | | | | |

- **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 |
|------------------------------|-------------------|------------|-------------|
| with polyethylenepolyamines | | Mouse | Sensitising |
| 3,6-diazaoctanethylenediamin | skin | Guinea pig | Sensitising |

| Conclusion/Summary | |
|---------------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |
| <u>Mutagenicity</u> | |
| 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 | |
| | |

| Code | : 00141100 | Date of issue/Date of revision | : 29 August 2024 |
|-----------|-----------------------------|--------------------------------|------------------|
| SIGMACOVI | ER 256/435/456/522 HARDENER | | |

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.

<u>Specific target organ toxicity (single exposure)</u>

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|--------------------------|-------------------|--|
| 2-methylpropan-1-ol | Category 3 Category 3 | | Respiratory tract irritation Narcotic effects |
| xylene | 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

| Produc | ct/ingredient name | Result |
|---|---|---|
| xylene ethylbenzene | | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |
| Information on likely routes of exposure | : Not available. | |
| Potential acute health eff | <u>ects</u> | |
| Inhalation | : Can cause central nervous dizziness. May cause resp | system (CNS) depression. May cause drowsiness or irratory irritation. |
| Ingestion | : Corrosive to the digestive t (CNS) depression. | ract. Causes burns. Can cause central nervous system |
| Skin contact | : Causes skin irritation. Def | atting to the skin. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye dama | ge. |
| Symptoms related to the | physical, chemical and toxicol | ogical characteristics |
| Inhalation | : Adverse symptoms may in respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness | clude the following: |
| Ingestion | : Adverse symptoms may in stomach pains | clude the following: |
| Skin contact | : Adverse symptoms may in pain or irritation redness dryness cracking blistering may occur | clude the following: |
| Eye contact | : Adverse symptoms may in pain watering redness | clude the following: |

| English (GB) | Ireland | 13/19 |
|--------------|---------|-------|
| | | |

| Code | : 00141100 | Date of issue/Date of revision |
|-----------|----------------------------|--------------------------------|
| SIGMACOVE | R 256/435/456/522 HARDENER | |

: 29 August 2024

SECTION 11: Toxicological information

| <u>Short term exposure</u> | | |
|-------------------------------|-----|--|
| Potential immediate effects | : | Not available. |
| Potential delayed effects | : | Not available. |
| Long term exposure | | |
| Potential immediate effects | : | Not available. |
| Potential delayed effects | : | Not available. |
| Potential chronic health effe | ect | <u>s</u> |
| 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 | 1 | No known significant effects or critical hazards. |
| Reproductive toxicity | 1 | No known significant effects or critical hazards. |
| Other information | : | Not available. |

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. 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 |
|---|--|---------------------------------|----------------------|
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines | EC50 4.11 mg/l Fresh water | Algae | 72 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| 2,4,6-tris(dimethylaminomethyl)phenol | Acute LC50 >100 mg/l Acute LC50 >100 mg/l | Daphnia Fish | 48 hours 96 hours |

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Code : 00141100

Date of issue/Date of revision

: 29 August 2024

SIGMACOVER 256/435/456/522 HARDENER

SECTION 12: Ecological information

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|--|---|------|----------|
| Atty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines ethylbenzene 2,4,6-tris (dimethylaminomethyl)phenol | - OECD 301D Ready Biodegradability - Closed Bottle Test | 15 % - 28 days 79 % - Readily - 10 days 4 % - Not readily - 28 days | - | - |

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

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| xylene | - | - | Readily |
| Fatty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines | - | - | Not readily |
| ethylbenzene | - | - | Readily |
| 2,4,6-tris(dimethylaminomethyl)phenol | - | - | Not readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------------------|---------------|-------------|-----------|
| ₽-methylpropan-1-ol | 1 | - | Low |
| xylene | 3.12 | 7.4 to 18.5 | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| 2,4,6-tris(dimethylaminomethyl)phenol | 0.219 | - | Low |
| 3,6-diazaoctanethylenediamin | -1.66 to -1.4 | - | Low |

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

| Code | : 00141100 | Date of issue/Date of revision | : 29 August 2024 |
|---------|------------------------------|--------------------------------|------------------|
| SIGMACO | /ER 256/435/456/522 HARDENER | | |

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. Was packaging should be recycled. Incineration or landfill should only be considered w 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 produ residues may create a highly flammable or explosive atmosphere inside the conta Do not cut, weld or grind used containers unless they have been cleaned thorough internally. Avoid dispersal of spilt material and runoff and contact with soil, waterw | ct iner. nly |

SECTION 14: Transport information

drains and sewers.

| | ADR/RID | ADN | IMDG | ΙΑΤΑ |
|------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 14.1 UN number or ID number | UN1263 | UN1263 | UN1263 | UN1263 |
| 14.2 UN proper shipping name | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL |
| 14.3 Transport hazard class(es) | 3 | 3 | 3 | 3 |
| 14.4 Packing group | | III | | |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

Additional information

| English (GB) | Ireland | 16/19 |
|--------------|---------|-------|
| 5 () | | |

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

| Code | : 00141100 | Date of issue/Date of revision | : 29 August 2024 |
|-------------------------------------|------------|--------------------------------|------------------|
| SIGMACOVER 256/435/456/522 HARDENER | | | |

SECTION 14: Transport information

| | - | |
|---|--|--|
| ADR/RID | This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. | |
| Tunnel code | : (D/E) | |
| ADN | DN : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1. | |
| IMDG | : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. | |
| IATA : None identified. | | |
| 14.6 Special pre user | ecautions 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 tr bulk according instruments | | |

SECTION 15: Regulatory information

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

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: Not applicable.

Ozone depleting substances (1005/2009/EU)

Not listed.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

| С | Category |
|---|----------|
| Ρ | 25c |

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

| | Code | : 00141100 | Date of issue/Date of revision | : 29 August 2024 |
|-------------------------------------|------|-----------------------------|--------------------------------|------------------|
| SIGMACOVER 256/435/456/522 HARDENER | | ER 256/435/456/522 HARDENER | | |

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

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

| Classification | Justification |
|-------------------------|-----------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| STOT SE 3, H335 | Calculation method |
| STOT SE 3, H336 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

| Full lext of appreviated in 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. |
| H373 | May cause damage to organs through prolonged or repeated |
| | exposure. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Full text of classifications [CLP/GHS] | |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| 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 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| | |

| English (GB) | Ireland | 18/19 |
|--------------------------------|---|-------|
| Skin Corr. 1C Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 | |

| Code : 00141100 | Date of issue/Date of revision : 29 August 2024 |
|-------------------------------------|--|
| SIGMACOVER 256/435/456/522 HARDENER | |
| SECTION 16: Other information | |
| 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 | : 29 August 2024 |
|---------------------------------|-------------------|
| Date of previous issue | : 8 February 2024 |
| Prepared by | : EHS |
| Version | : 16.03 |

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