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

: 9 October 2024

Version : 1.01



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

| 1.1 Product identifier | |
|----------------------------------|---|
| Product name | : SIGMACOVER 555 HARDENER |
| Product code | : 00267453 |
| Product type | : Liquid. |
| Other means of identification | : Not available. |
| 1.2 Relevant identified uses of | of the substance or mixture and uses advised against |
| Product use | : Professional applications, Used by spraying. |
| Use of the substance/ mixture | : Coating.; Hardener. |
| 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 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 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

Hazard pictograms



Signal word

: Danger

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| SECTION 2: Hazards | | lentification |
| Hazard statements | : | 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. Avoid release to the environment. |
| Response | : | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. |
| Storage | : | Not applicable. |
| Disposal | - | Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P273, P305 + P351 + P338, P310, P501 |
| 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 requiren | nen | <u>ts</u> |
| Containers to be fitted with child-resistant fastenings | | Not applicable. |
| Tactile warning of danger | : | Not applicable. |
| 2.3 Other hazards | | |
| Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII | : | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other hazards which do | | Causes digestive tract burns. Prolonged or repeated contact may dry skin and |

not result in classification cause irritation.

SECTION 3: Composition/information on ingredients

| 3.2 Mixtures : | Mixture | | | |
|-------------------------------|---|------------------------|--|---------|
| Product/ingredient name | Identifiers | % | Classification | Туре |
| Ź-methylpropan-1-ol xylene | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 | ≥25 - ≤50 ≥10 - ≤25 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 | [1] [2] |
| English (GB) | United I | Kingdom (UK) | | 2/1 |

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| SECTION 3: Composition | on/information on | ingredients | | |
| 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 | [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 | [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 See Section 16 for | [1] |

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

the full text of the H statements declared

toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and pxylene, 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

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

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|--|---|
| SECTION 4: First | aid measures |
| 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 | <u>imptoms</u> |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| 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 immediate 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 fi | om 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 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. |

| English (GB) | United Kingdom (UK) | 4/16 |
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| SECTION | 5: Firefighting measures | | |
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| Special protective | : Fire-fighters should wear appropriate protective equipment and self-contained |
|-----------------------------|---|
| equipment for fire-fighters | 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 British standard BS EN 469 will provide a basic level of protection for chemical incidents. |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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|---------------------------------|----|--|
| 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for 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. 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 |

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SECTION 7: Handling and storage

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. |
|---|---|
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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

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

Biological exposure indices

| Product/ingredient name | Exposure indices |
|-------------------------|--|
| x ylene | EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift. |

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SECTION 8: Exposure controls/personal protection

| Recommended monitoring | : Reference should be made to monitoring standards, such as the following: British |
|------------------------|---|
| procedures | Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and |
| | measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - |
| | Guide for the application and use of procedures for the assessment of exposure to |
| | chemical and biological agents) British Standard BS 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/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|---|------|---|-------------------------------|--------------------|----------------------|
| methylpropan-1-ol | DNEL | Long term Inhalation | 55 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| xylene | DNEL | Long term Oral | 5 mg/kg bw/day | General population | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 65.3 mg/m ³ | General population | |
| | DNEL | Long term Dermal | 125 mg/kg bw/day | General population | |
| | DNEL | Long term Dermal | 212 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 221 mg/m³ | Workers | Local |
| | DNEL | Long term Inhalation | 221 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| Fatty acids, C18-unsatd., dimers, reaction products | DNEL | Long term Oral | 0.56 mg/kg bw/day | General population | |
| with polyethylenepolyamines | | | | | |
| with polyethylenepolyannines | 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 | 0 | Workers | |
| | DNEL | | 1.1 mg/kg bw/day 3.9 mg/m³ | Workers | Systemic Systemic |
| athulhanzana | DNEL | Long term Inhalation | | Workers | Local |
| ethylbenzene | DMEL | Long term Inhalation Short term Inhalation | 442 mg/m ³ | Workers | |
| | DNEL | | 884 mg/m ³ | | Systemic |
| | | Long term Oral | 1.6 mg/kg bw/day | General population | |
| | 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 |
| 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 | |
| | DNEL | Long term Dermal | 0.075 mg/kg bw/day | General population | |
| | DNEL | Short term Inhalation | 0.13 mg/m ³ | General population | |
| | DNEL | Long term Inhalation | 0.13 mg/m ³ | General population | |
| | 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/cm² | 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 | |
| | DNEL | Long term Dermal | 0.57 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Dermal | 1 mg/cm ² | General population | |
| | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 8 mg/kg bw/day | General population | |
| | DNEL | Short term Oral | 20 mg/kg bw/day | General population | |
| | DNEL | Short term Inhalation | 1600 mg/m ³ | General population | |
| | DNEL | Short term Inhalation | 5380 mg/m ³ | Workers | Systemic |
| | | | 0000 mg/m | | Cystonio |

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SECTION 8: Exposure controls/personal protection

| Product/ingredient name | 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 | - |

| English (GB) | United Kingdom (UK) | 8/16 |
|--|---|---|
| Other skin protection | : Appropriate footwear and any additional skin protection measures should based on the task being performed and the risks involved and should be specialist before handling this product. | |
| Body protection | : Personal protective equipment for the body should be selected based on performed and the risks involved and should be approved by a specialist handling this product. When there is a risk of ignition from static electric static protective clothing. For the greatest protection from static discharge should include anti-static overalls, boots and gloves. | : before ity, wear anti- |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved stand worn at all times when handling chemical products if a risk assessment i necessary. Considering the parameters specified by the glove manufact during use that the gloves are still retaining their protective properties. It noted that the time to breakthrough for any glove material may be differe glove manufacturers. In the case of mixtures, consisting of several subs protection time of the gloves cannot be accurately estimated. When pro frequently repeated contact may occur, a glove with a protection class of (breakthrough time greater than 480 minutes according to EN 374) is rec When only brief contact is expected, a glove with a protection class of 2 (breakthrough time greater than 30 minutes according to EN 374) is reco The user must check that the final choice of type of glove selected for ha product is the most appropriate and takes into account the particular con as included in the user's risk assessment. butyl rubber | ndicates this is turer, check should be ent for different stances, the longed or 6 commended. or higher pommended. andling this |
| Eye/face protection Skin protection | : Chemical splash goggles and face shield. | |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical prode eating, smoking and using the lavatory and at the end of the working per Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing should not be allowed out of the workplace. contaminated clothing before reusing. Ensure that eyewash stations and showers are close to the workstation location. | iod. ed clothing. Wash |
| Individual protection meas | | |
| 8.2 Exposure controls Appropriate engineering controls | : Use only with adequate ventilation. Use process enclosures, local exhat or other engineering controls to keep worker exposure to airborne contai any recommended or statutory limits. The engineering controls also nee vapour or dust concentrations below any lower explosive limits. Use exp ventilation equipment. | minants below d to keep gas, |

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| SECTION 8: Exposure con | ntrols/personal protection | |

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|---------------------------------|---|
| 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 worker 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 | : Liquid. |
| Colour | : Various |
| Odour | : Aromatic. |
| Odour threshold | : Not available. |
| Melting point/freezing point | : |
| Initial boiling point and boiling range | : >37.78°C (>100°F) |
| Flammability (solid, gas) | : liquid |
| Upper/lower flammability or explosive limits | : Not available. |
| Flash point | : Closed cup: 25°C (77°F) |
| Auto-ignition temperature | 1 |

| - 11 | | | | | | | | |
|------|------------------------------|--------|-----|--------|--|--|--|--|
| | Ingredient name | °C | °F | Method | | | | |
| | 3,6-diazaoctanethylenediamin | 337.78 | 640 | | | | | |

| Media | Result |
|-----------------|---|
| Solubility(ies) | : |
| Viscosity | Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s Kinematic (40°C): >21 mm²/s |
| рН | : Not applicable. Not applicable. insoluble in water. |

| | Media | | Result |
|---|-------------------------------------|---|-------------|
| | cold water | | Not soluble |
| N | liscible with water | : | No. |
| - | autition as affiniants in actorial. | | Neterrieshi |

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

Vapour pressure

| Vapour pressure | : Va | : Vapour Pressure at 20°C | | | 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 | | | | |
| Relative density | : 0.95 | | | | • | · | |
| 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 | | | | | | | |

| English (| |
|-----------|------|
| Fnallsn | (-8) |
| Lighting | |

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

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|-------------------------|--------------------------------|------------------|
| SIGMACOVER 555 HARDENER | | |

SECTION 9: Physical and chemical properties

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 ingredients. |
|--|--|
| 10.2 Chemical stability | : The product is stable. |
| 10.3 Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| 10.4 Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposition product Refer to protective measures listed in sections 7 and 8. |
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|------------------------------|------------------------|---------|------------|----------|
| 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 | - |
| 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 | LD50 Dermal | Rat | 1280 mg/kg | - |
| (dimethylaminomethyl) | | | | |
| phenol | | | | |
| • | 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

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| GMACOVER 555 HARDENER | 37508.2 | 6197.4 | N/A | 43.2 | N/A |
| 2-methylpropan-1-ol | 2830 | 2460 | N/A | 24.6 | N/A |
| xylene | 4300 | 1700 | N/A | 11 | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | 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 |

Irritation/Corrosion

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|----------|-----------------|--------------------------------|------------------|
| SIGMACOV | ER 555 HARDENER | | |

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation | |
|-------------------------|--|---------|-------|--------------------|-------------|--|
| kylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - | |
| Conclusion/Summary | : Not available. | | | | | |
| 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 |
|--|-------------------|------------|-------------|
| Atty acids, C18-unsatd., dimers, reaction products with polyethylenepolyamines | skin | 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. |
| Mutagenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Carcinogenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Reproductive toxicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| Teratogenicity | |
| Conclusion/Summary | : There are no data available on the mixture itself. |
| | |

Specific target organ toxicity (single exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|--------------------------|-------------------|---|
| -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 | |
|-------------------------|--------------------------------|--|
| ₩ylene | ASPIRATION HAZARD - Category 1 | |
| ethylbenzene | ASPIRATION HAZARD - Category 1 | |

Information on likely routes : Not available. of exposure

| Potential acute health effects | | |
|--------------------------------|---|---|
| Eye contact | : | Causes serious eye damage. |
| Inhalation | 1 | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | 1 | Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |

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|---|---|
| SECTION 11: Toxico | ogical information |
| Ingestion | : Corrosive to the digestive tract. Causes burns. Can cause central nervous system (CNS) depression. |
| Symptoms related to the phy | sical, chemical and toxicological characteristics |
| Eye contact | : Adverse symptoms may include the following: pain watering redness |
| 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 |
| Delayed and immediate effect | s as well as chronic effects from short and long-term exposure |
| Short term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health eff | <u>cts</u> |
| Not available. | |
| Conclusion/Summary | : Not available. |
| General | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking ar or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : No known significant effects or critical hazards. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : No known significant effects or critical hazards. |
| Other information | : Not available. |

SECTION 12: Ecological information

12.1 Toxicity

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SECTION 12: Ecological information

| 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 | Daphnia | 48 hours |
| • | Acute LC50 >100 mg/l | Fish | 96 hours |

Conclusion/Summary

: Not available.

12.2 Persistence and degradability

| 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 : Not available.

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

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

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| SIGMACOVE | ER 555 HARDENER | | |

SECTION 12: Ecological information

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

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

Waste catalogue

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

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | | Waste catalogue |
|---------------------|--|---|
| Container | 15 01 06 | mixed packaging |
| Special precautions | taken when Empty conta residues ma container. I thoroughly i | al and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ainers or liners may retain some product residues. Vapour from product ay create a highly flammable or explosive atmosphere inside the Do not cut, weld or grind used containers unless they have been cleaned nternally. Avoid dispersal of spilt material and runoff and contact with rays, drains and sewers. |

SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | ΙΑΤΑ |
|------------------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 14.1 UN 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 | Ш | 111 | III | 111 |
| 14.5 Environmental hazards | No. | Yes. | No. | No. |
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. | Not applicable. |

Additional 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)

English (GB)

| <mark>Code</mark> SIGMACOV | : 00267453 ER 555 HARDENER | Date of issue/Date of revision | : 9 October 2024 |
|---|-------------------------------|--|---------------------------------|
| SECTIO | N 14: Transport i | nformation | |
| ADN | | nly regulated as an environmentally hazardous substa ass 3 viscous liquid is not subject to regulation in pacl | |
| IMDG | : This class 3 viso | ous liquid is not subject to regulation in packagings u | p to 450 L according to 2.3.2.5 |
| ΙΑΤΑ | : None identified. | | |
| 14.6 Specia user | up | ansport within user's premises: always transport in right and secure. Ensure that persons transporting the event of an accident or spillage. | |
| 14.7 Transp according t instruments | o IMO | ot available. | |
| SECTIO | N 15: Regulatory | information | |
| 15.1 Safety | health and environme | ntal regulations/legislation specific for the substa | nce or mixture |
| <u>UK (GB)/R</u> | EACH | | |
| Annex XI | V - List of substances s | ubject to authorisation | |
| Annex) | <u>(IV</u> | | |
| None of | the components are liste | d. | |
| <u>Substar</u> | nces of very high conce | <u>rn</u> | |
| None of | the components are liste | d. | |
| | • | | |

Explosive precursors : Not applicable.

Ozone depleting substances

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

| Product/ingredient name | Entry Number (REACH) |
|-------------------------|----------------------|
| GMACOVER 555 HARDENER | 3 |

: Not applicable.

Seveso Directive

Labelling

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

SECTION 16: Other information

| Indicates information | that has changed from previously issued version. |
|-------------------------------|--|
| Abbreviations and acronyms | ATE = Acute Toxicity Estimate 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

| English | (GR) |
|-----------|------|
| Linghisti | |

| Code | : 00267453 | |
|---------|------------|--|
| SIGMACO | | |

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SIGMACOVER 555 HARDENER

SECTION 16: Other information

| 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

| 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

| 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 |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| 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 | : 9 October 2024 |
|---------------------------------|-------------------|
| Date of previous issue | : 7 November 2022 |
| Prepared by | : EHS |
| Version | : 1.01 |

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