SAFETY DATA SHEET

Date of issue/Date of revision

: 29 August 2024

Version : 1.02



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

| 1.1 Product identifier | |
|----------------------------------|---|
| Product name | : SIGMACOVER 280 HARDENER |
| Product code | : 40280-BHARD/0.8L |
| Product type | : Liquid. |
| Other means of identification | : Not available. |
| 1.2 Relevant identified use | es of the substance or mixture and uses advised against |
| Product use | : Professional applications, Used by spraying. |
| Use of the substance/ mixture | : Coating. |
| Uses advised against | : Product is not intended, labelled or packaged for consumer use. |

PPG France Business Support SAS, 3, ZAE "Les Dix Muids", B.P. 89, 59583 Marly Cedex, France, 33 (0)3 27 19 35 00

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

PPG Architectural Coatings UK Ltd, Huddersfield Road, Birstall, West Yorkshire WF17 9XA, Tel: +44 (0) 1924 354000

1.4 Emergency telephone number

<u>Supplier</u> +33 (0)3 27 19 35 00 (0800-1700)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture Product definition : Mixture

Classification according to UK CLP/GHS Flam. Liq. 2, H225 Skin Corr. 1C, H314 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

| Code | : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|---------|--------------------|--------------------------------|------------------|
| SIGMACC | OVER 280 HARDENER | | |
| | | | |

SECTION 2: Hazards identification

| Hazard statements | : | Highly flammable liquid and vapour. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause respiratory irritation. May cause drowsiness or dizziness. Harmful to aquatic life with long lasting effects. |
|---|----|--|
| Precautionary statements | | |
| Prevention | : | Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| Response | : | IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| Storage | 1 | Not applicable. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. P280, P210, P304 + P310, P301 + P310, P303 + P361 + P353, 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 requirem | en | i <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 not result in classification | : | Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. |

SECTION 3: Composition/information on ingredients

| Product/ingredient name | Identifiers | % | Classification | Туре |
|--|--|-----------|---|---------|
| 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 | [1] [2] |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1 | ≥10 - <25 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | [1] |
| 2-methylpropan-1-ol | REACH #: | ≥10 - ≤25 | Flam. Liq. 3, H226 | [1] [2] |

| Code <th::< th=""> : 40280-BHARD/0.8L Date of issue/Date of revision : 29 August 2024 SIGMACOVER 280 HARDENER ::: :: :: :: :: :: :: :: :: <td::< td=""> :: <td::< td=""></td::<></td::<></th::<> | | | | |
|---|--|--|--|--|
| SECTION 3: Composition/information on ingredients | | | | |

| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | |
|--|--|---------------------|-------------|------------------------|---------|
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | Skin Irrit. 2, H315 | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | Index: 603-108-00-1 | | STOT SE 3, H336 | |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>≥10 - ≤25</td><td>Skin Irrit. 2, H315</td><td>[1]</td></mw<=1100)<> | CAS: 25036-25-3 | ≥10 - ≤25 | Skin Irrit. 2, H315 | [1] |
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | | | | Eye Irrit. 2, H319 | |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | Skin Sens. 1, H317 | |
| $ \begin{array}{c} EC: 202-013-9\\ CAS: 90-72-2\\ REACH\#:\\ 01-2119489370-35\\ EC: 202-849-4\\ CAS: 100-41-4\\ Index: 601-023-00-4\\ \end{array} \begin{array}{c} \geq 1.0 - \leq 5.0\\ Acute \ Tox.\ 4, H332\\ STOT \ RE\ 2, H373\\ (hearing \ organs)\\ Asp.\ Tox.\ 1, H304\\ Aquatic \ Chronic\ 3,\\ H412\\ Acute \ Tox.\ 4, H302\\ H412\\ Acute \ Tox.\ 4, H302\\ Acute \ Tox.\ 4, H312\\ Index:\ 612-059-00-5\\ \end{array} \right) \geq 1.0 - < 5.0 \begin{array}{c} \geq 1.0 - < 5.0\\ Acute \ Tox.\ 4, H302\\ Acute \ Tox.\ 4, H312\\ Acute \ Tox.\ 4, H312\\ Stin \ Corr.\ 1B, H314\\ \end{array} \right) $ | 2,4,6-tris(dimethylaminomethyl) | | ≥1.0 - ≤5.0 | | [1] |
| ethylbenzeneCAS: 90-72-2 REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 $\geq 1.0 - \leq 5.0$ Eye Dam. 1, H318 Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412[1] [2]3,6-diazaoctanethylenediaminEC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 $\geq 1.0 - < 5.0$ Acute Tox. 4, H302 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314[1] | phenol | | | | |
| ethylbenzeneREACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4 $\geq 1.0 - \leq 5.0$ Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412[1] [2]3,6-diazaoctanethylenediaminEC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 $\geq 1.0 - < 5.0$ Acute Tox. 4, H302 Acute Tox. 4, H302 Acute Tox. 4, H312[1] | | | | · · · · | |
| 01-2119489370-35 Acute Tox. 4, H332 EC: 202-849-4 STOT RE 2, H373 CAS: 100-41-4 (hearing organs) Index: 601-023-00-4 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 H412 3,6-diazaoctanethylenediamin EC: 203-950-6 CAS: 112-24-3 ≥1.0 - <5.0 | | | | | |
| EC: 202-849-4 STOT RE 2, H373 CAS: 100-41-4 (hearing organs) Index: 601-023-00-4 Asp. Tox. 1, H304 Aquatic Chronic 3, H412 H412 3,6-diazaoctanethylenediamin EC: 203-950-6 CAS: 112-24-3 Acute Tox. 4, H302 Index: 612-059-00-5 Skin Corr. 1B, H314 | ethylbenzene | REACH #: | ≥1.0 - ≤5.0 | | [1] [2] |
| CAS: 100-41-4 Index: 601-023-00-4 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412 3,6-diazaoctanethylenediamin EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 ≥1.0 - <5.0 | | 01-2119489370-35 | | | |
| Index: 601-023-00-4 Asp. Tox. 1, H304 3,6-diazaoctanethylenediamin EC: 203-950-6 CAS: 112-24-3 ≥1.0 - <5.0 | | | | | |
| 3,6-diazaoctanethylenediamin EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 ≥1.0 - <5.0 | | | | | |
| 3,6-diazaoctanethylenediamin EC: 203-950-6 ≥1.0 - <5.0 | | Index: 601-023-00-4 | | | |
| 3,6-diazaoctanethylenediamin EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 ≥1.0 - <5.0 Acute Tox. 4, H302 Acute Tox. 4, H312 [1] Skin Corr. 1B, H314 Index: 612-059-00-5 Skin Corr. 1B, H314 Skin Corr. | | | | | |
| CAS: 112-24-3 Index: 612-059-00-5 Skin Corr. 1B, H314 | | | | | |
| Index: 612-059-00-5 Skin Corr. 1B, H314 | 3,6-diazaoctanethylenediamin | | ≥1.0 - <5.0 | | [1] |
| | | | | | |
| Eve Dam. 1, H318 | | Index: 612-059-00-5 | | | |
| | | | | | |
| Skin Sens. 1, H317 | | | | | |
| Aquatic Chronic 3, | | | | | |
| H412 | | | | | |
| | toluene | | ≤0.30 | | [1] [2] |
| 01-2119471310-51 Skin Irrit. 2, H315 | | | | | |
| EC: 203-625-9 Repr. 2, H361d | | | | | |
| CAS: 108-88-3 STOT SE 3, H336 | | | | | |
| Index: 601-021-00-3 STOT RE 2, H373 | | Index: 601-021-00-3 | | | |
| Asp. Tox. 1, H304 | | | | Asp. Tox. 1, H304 | |
| See Section 16 for | | | | See Section 16 for | |
| the full text of the H | | | | the full text of the H | |
| statements declared | | | | statements declared | |
| above. | | | | above. | |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. Xylene: Several REACH registrations cover the REACH registered substance with xylene isomers, ethylbenzene (and toluene). The other REACH Registrations include: 01-2119555267-33 reaction mass of ethylbenzene and m-xylene and p-xylene, 01-2119486136-34 Aromatic hydrocarbons, C8, 01-2119539452-40 reaction mass of ethylbenzene and xylene. Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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. |
| | |

| Code : 40280-BHARI SIGMACOVER 280 HARDEN | 0 |
|---|---|
| SECTION 4: First aid | measures |
| 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. |
| | is and effects, both acute and delayed |
| Potential acute health effects | <u>5</u> |
| 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 severe burns. 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/symp | <u>toms</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 immedi | ate medical attention and special treatment needed |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |
| SECTION 5: Firefigh | ting 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 from the substance or mixture

| Hazards from the | : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion |
|----------------------|--|
| substance or mixture | 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. |

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

| Code : 40280-BHARD/0.8L SIGMACOVER 280 HARDENER | Date of issue/Date of revision | : 29 August 2024 | |
|--|--------------------------------|------------------|---|
| SECTION 5: Firefighting measure | S | | Ī |

| olo non o. Thenghing measures | | | |
|--|---|--|--|
| 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. | |
| 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 | |

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

mode.

| 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 spilt 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. |

 Code
 <th::40280-BHARD/0.8L</th>
 Date of issue/Date of revision
 : 29 August 2024

 SIGMACOVER 280 HARDENER

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

| Protective measures | : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|--|--|
| Advice on general occupational hygiene | : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

7.2 Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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 | | |
|-------------------------|--|--|--|
| xylene | EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,p- or mixed isomers] Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. | | |
| 2-methylpropan-1-ol | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 231 mg/m ³ 15 minutes. STEL: 75 ppm 15 minutes. TWA: 154 mg/m ³ 8 hours. TWA: 50 ppm 8 hours. | | |
| ethylbenzene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed through skin. STEL: 552 mg/m ³ 15 minutes. STEL: 125 ppm 15 minutes. | | |
| English (GB) | United Kingdom (UK) 6/17 | | |

| Code | : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|---------|--------------------|--------------------------------|------------------|
| SIGMACC | OVER 280 HARDENER | | |

SECTION 8: Exposure controls/personal protection

| | TWA: 441 mg/m ³ 8 hours. |
|---------|--|
| | TWA: 100 ppm 8 hours. |
| toluene | EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed |
| | through skin. |
| | STEL: 384 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 191 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |

Biological exposure indices

| Product/ingredient name | Exposure indices | |
|-------------------------|--|--|
| xylene | XYLENES | |
| | Id be made to appropriate monitoring standards. Reference to ce documents for methods for the determination of hazardous | |

substances will also be required.

DNELs/DMELs

| Product/ingredient name | Туре | Exposure | Value | Population | Effects |
|--|------|-----------------------|-------------------------|--------------------|----------|
| 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/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 260 mg/m ³ | General population | Systemic |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 442 mg/m ³ | Workers | Systemic |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty | DNEL | Long term Oral | 97.2 µg/kg bw/day | General population | Systemic |
| acids and triethylenetetramine | | | | | |
| 2 | DNEL | Long term Dermal | 97.2 µg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 0.169 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.272 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.952 mg/m ³ | Workers | Systemic |
| 2-methylpropan-1-ol | DNEL | Long term Inhalation | 55 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 310 mg/m ³ | Workers | Local |
| 2,4,6-tris (dimethylaminomethyl)phenol | DNEL | Long term Oral | 0.075 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Dermal | 0.075 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.075 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 0.13 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 0.13 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 0.15 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 0.53 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 0.6 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 2.1 mg/m ³ | Workers | Systemic |
| ethylbenzene | DMEL | Long term Inhalation | 442 mg/m ³ | Workers | Local |
| | DMEL | Short term Inhalation | 884 mg/m³ | 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 |
| 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 |
| | 1 | 1 | | | 7/17 |

English (GB)

Code : 40280-BHARD/0.8L **SIGMACOVER 280 HARDENER**

Date of issue/Date of revision

: 29 August 2024

SECTION 8: Exposure controls/personal protection

| | I | | | | |
|---------|------|-----------------------|-------------------------|--------------------|----------|
| | 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/cm² | General population | Local |
| | DNEL | Long term Inhalation | 1 mg/m³ | 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 |
| toluene | DNEL | Long term Oral | 8.13 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 56.5 mg/m ³ | General population | Local |
| | DNEL | Long term Inhalation | 56.5 mg/m ³ | General population | Systemic |
| | DNEL | Long term Inhalation | 192 mg/m ³ | Workers | Local |
| | DNEL | Long term Inhalation | 192 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 226 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Inhalation | 226 mg/m ³ | General population | Local |
| | DNEL | Short term Inhalation | 226 mg/m ³ | General population | Systemic |
| | DNEL | Long term Dermal | 384 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 384 mg/m ³ | Workers | Local |
| | DNEL | Short term Inhalation | 384 mg/m ³ | Workers | Systemic |
| | 1 | ļ | | | |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|------------------------|------------------|--------------------------|
| 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 | - |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Fresh water | 0.043 mg/l | Assessment Factors |
| , | Marine water | 0 mg/l | Assessment Factors |
| | Sewage Treatment Plant | 3.84 mg/l | Assessment Factors |
| | Fresh water sediment | 434.02 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 43.4 mg/kg dwt | Equilibrium Partitioning |
| | Soil | 86.78 mg/kg dwt | Equilibrium Partitioning |
| 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 |
| 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 | - |
| toluene | Fresh water | 0.68 mg/l | Sensitivity Distribution |
| | Marine water | 0.68 mg/l | Sensitivity Distribution |
| | Sewage Treatment Plant | 13.61 mg/l | Sensitivity Distribution |
| | Fresh water sediment | 16.39 mg/kg dwt | Equilibrium Partitioning |
| | Marine water sediment | 16.39 mg/kg dwt | - |

8.2 Exposure controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation **Appropriate engineering** controls

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.

| Code | : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|---------|--------------------|--------------------------------|------------------|
| SIGMACO | VER 280 HARDENER | | |

SECTION 8: Exposure controls/personal protection

| Individual protection measu | i <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 <u>Skin protection</u> | : Chemical splash goggles and face shield. |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. nitrile neoprene |
| Body protection | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapour (Type A) and particulate filter P3 |
| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. |

SECTION 9: Physical and chemical properties

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

| 9.1 Information on basic physic | al and chemical properties |
|---|---|
| <u>Appearance</u> | |
| Physical state | : Liquid. |
| Colour | : Clear. |
| Odour | : Characteristic. |
| 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: -80.29°C (-112.5°F) |
| Initial boiling point and boiling range | : >37.78°C (>100°F) |

English (GB)

9/17

| Code : 40280-BHARD/0.8L SIGMACOVER 280 HARDENER | | Da | te of issue/Date o | of revision | : 29 August 2024 |
|--|---------------|-------------------------------------|--------------------|-----------------|---------------------|
| SECTION 9: Physical a | nd cl | nemical pro | perties | | |
| Flammability (solid, gas) Upper/lower flammability or explosive limits | : liq : Gr | | ge: Lower: 1.7% | Upper: 10.9% (2 | -methylpropan-1-ol) |
| Flash point | : Cle | osed cup: 22°C (7 | 71.6°F) | | |
| Auto-ignition temperature | : | | | | |
| Ingredient name | | °C | °F | Method | k |
| 3,6-diazaoctanethylenediamin | | 337.78 | 640 | | |
| рН | | t applicable. t applicable. inso | luble in water. | | |
| Viscosity | | nematic (40°C): > | | | |
| Solubility(ies) | : | | | | |
| Media | I | Result | | | |
| cold water | ١ | lot soluble | | | |
| Miscible with water | : No | | | | |
| Partition coefficient: n-octano | / : No | t applicable. | | | |

| Partition coefficient. n-octanol/ | . • | not applic |
|-----------------------------------|-----|------------|
| water | | |
| Vapour pressure | ÷ | |

| | Va | Vapour Pressure at 20°C | | | Vapour pressure at 50°C | | |
|--|---------------|----------------------------|---|---------------|-------------------------|--------------------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| 2-methylpropan-1-ol | <12.00102 | <1.6 | DIN EN 13016-2 | | | | |
| Relative density | : 0.92 | | | 1 | | | |
| /apour density | 0 | | value: 5.04 (Air = 1) | (3,6-diazad | octanethyle | nediamin). Weigh | |
| | aver | age: 3.29 | (Air = 1) | | | | |
| Explosive properties | : The | product its | (Air = 1) elf is not explosive, b with air is possible. | out the forma | tion of an e | explosible mixture | |
| Explosive properties Oxidising properties Particle characteristics | : The vapo | product its our or dust | elf is not explosive, b | | tion of an e | explosible mixture | |

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 products. Refer to protective measures listed in sections 7 and 8. |
| 10.5 Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids. |
| 10.6 Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides |

Code : 40280-BHARD/0.8L SIGMACOVER 280 HARDENER Date of issue/Date of revision

: 29 August 2024

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|------------------------|---------|-------------|----------|
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 g/kg | - |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapour | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/kg | - |
| Epoxy Resin (700 <mw <=1100)</mw | LD50 Dermal | Rat | >2000 mg/kg | - |
| , | LD50 Oral | Rat | >2000 mg/kg | - |
| 2,4,6-tris | LD50 Dermal | Rat | 1280 mg/kg | - |
| (dimethylaminomethyl) phenol | | | | |
| | LD50 Oral | Rat | 1200 mg/kg | - |
| ethylbenzene | LC50 Inhalation Vapour | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| 3,6-diazaoctanethylenediamin | LD50 Dermal | Rabbit | 1465 mg/kg | - |
| | LD50 Oral | Rat | 1716 mg/kg | - |
| toluene | LC50 Inhalation Vapour | Rat | 49 g/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| | LD50 Oral | Rat | 5580 mg/kg | - |

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

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|--|
| SIGMACOVER 280 HARDENER | 18922.9 | 5060.9 | N/A | 40.4 | N/A |
| xylene | 4300 | 1700 | N/A | 11 | N/A |
| 2-methylpropan-1-ol | 2830 | 2460 | N/A | 24.6 | N/A |
| 2,4,6-tris(dimethylaminomethyl)phenol | 1200 | 1280 | N/A | N/A | N/A |
| ethylbenzene | 3500 | 17800 | N/A | 17.8 | N/A |
| 3,6-diazaoctanethylenediamin | 1716 | 1465 | N/A | N/A | N/A |
| toluene | 5580 | 8390 | N/A | 49 | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|----------------------------------|-----------------|-------|--------------------|-------------|
| xylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Irritant | Human | - | - | - |
| Conclusion/Summary | Not available. | | - | • | |
| Skin | : There are no data available on | the mixture its | elf. | | |
| Eyes | : There are no data available on | the mixture its | elf. | | |
| Respiratory | : There are no data available on | the mixture its | elf. | | |
| <u>Sensitisation</u> | | | | | |

English (GB)

Code : 40280-BHARD/0.8L SIGMACOVER 280 HARDENER

Date of issue/Date of revision

: 29 August 2024

SECTION 11: Toxicological information

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

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

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| xylene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene | 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 | ; | Causes severe burns. 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. |

Symptoms related to the physical, chemical and toxicological characteristics

| Code : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|-------------------------|--------------------------------|------------------|
| SIGMACOVER 280 HARDENER | | |

SECTION 11: Toxicological information

| Encounter of | |
|--------------|---|
| 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 effects as well as chronic effects from short and long-term exposure

| Short term exposure | |
|--------------------------------|---|
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| <u>Long term exposure</u> | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health eff | <u>ects</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 | : 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

| Product/ingredient name | Result | Species | Exposure |
|---|--|--------------------|----------------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | EC10 1.78 mg/l | Algae | 72 hours |
| 2-methylpropan-1-ol 2,4,6-tris (dimethylaminomethyl) phenol | Acute EC50 1100 mg/l Acute LC50 >100 mg/l | Daphnia Daphnia | 48 hours 48 hours |
| English (GB) | United K | ingdom (UK) | 13/1 |

| Code | : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|-----------|--------------------|--------------------------------|------------------|
| SIGMACOVE | R 280 HARDENER | | |

SECTION 12: Ecological information

| | • | | |
|--------------------|---------------------------------|------------------------------|----------|
| | Acute LC50 >100 mg/l | Fish | 96 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| Conclusion/Summary | : Not available. | | |

-

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|-----------------------------|------|----------|
| 2,4,6-tris (dimethylaminomethyl) phenol | OECD 301D Ready Biodegradability - Closed Bottle Test | 4 % - Not readily - 28 days | - | - |
| ethylbenzene | - | 79 % - Readily - 10 days | - | - |

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------------|
| xylene Fatty acids, C18-unsatd., | - | - | Readily Not readily |
| dimers, oligomeric reaction products with tall-oil fatty | | | literiodelly |
| acids and triethylenetetramine | | | |
| 2,4,6-tris (dimethylaminomethyl) | - | - | Not readily |
| phenol | | | |
| ethylbenzene toluene | - | - | Readily Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------------|---------------|-------------|-----------|
| xylene | 3.12 | 7.4 to 18.5 | Low |
| 2-methylpropan-1-ol | 1 | - | Low |
| 2,4,6-tris | 0.219 | - | Low |
| (dimethylaminomethyl) phenol | | | |
| ethylbenzene | 3.6 | 79.43 | Low |
| 3,6-diazaoctanethylenediamin | -1.66 to -1.4 | - | Low |
| toluene | 2.73 | 8.32 | Low |

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

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

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

| Code | : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|-------|---------------------|--------------------------------|------------------|
| SIGMA | ACOVER 280 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 meth | nods |
|---------------------------|--|
| 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 | : Yes. |
| Waste catalogue | |

| Waste code | Waste designation |
|---------------------|---|
| 08 01 11* | waste paint and varnish containing organic solvents or other hazardous substances |
| Packaging | • |
| Methods of disposal | : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. |
| Special precautions | : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with |

soil, waterways, drains and sewers.

SECTION 14: Transport information

| ADR/RID JN3469 PAINT, FLAMMABLE, CORROSIVE | ADN UN3469 PAINT, FLAMMABLE, | IMDG UN3469 PAINT, FLAMMABLE, | IATA UN3469 |
|---|------------------------------------|---|--------------------------------|
| PAINT, FLAMMABLE, | PAINT, FLAMMABLE, | | |
| | | | |
| | CORROSIVE | CORROSIVE | PAINT, FLAMMABLE, CORROSIVE |
| 3 (8) | 3 (8) | 3 (8) | 3 (8) |
| I | II | 11 | 11 |
| No. | Yes. | No. | No. |
| Not applicable. | Not applicable. | Not applicable. | Not applicable. |
| 1 | o. Not applicable. | o. Yes. Not applicable. Not applicable. | II II o. Yes. |

Additional information

| ADR/RID | : None identified. |
|-------------|---|
| Tunnel code | : (D/E) |
| ADN | : The product is only regulated as an environmentally hazardous substance when transported in tank vessels. |
| IMDG | : None identified. |
| ΙΑΤΑ | : None identified. |

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

| Code | : 40280-BHARD/0.8L | Date of issue/Date of revision | : 29 August 2024 |
|----------|--------------------|--------------------------------|------------------|
| SIGMACOV | ER 280 HARDENER | | |

SECTION 14: Transport information

| 14.6 | Sp | ec | ia |
|------|----|----|----|
| user | | | |

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

14.7 Transport in bulk: Not available.according to IMO

instruments

SECTION 15: Regulatory information

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

UK (GB)/REACH

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Ozone depleting substances

Not listed.

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

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category

P5c

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 |
|------------------------------------|--|
| Due e e du ve une e d'ée de viue é | he election |

Procedure used to derive the classification

| Code | : 40280-BHARD/0.8L | |
|----------|--------------------|--|
| CICMACOV | | |

Date of issue/Date of revision

: 29 August 2024

SIGMACOVER 280 HARDENER

| SECTION 16: Other information | | | |
|-------------------------------|-----------------------|--|--|
| Classification | Justification | | |
| Flam. Liq. 2, H225 | On basis of test data | | |
| Skin Corr. 1C, H314 | 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. |
| H361d | Suspected of damaging the unborn child. |
| 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 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 | ACUTE TOXICITY - Category 4 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 |
|---|---|
| | |
| Flam. Liq. 3 | FLAMMABLE LIQUIDS - Category 3 |
| Repr. 2 Skin Corr. 1B | REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 Skin Sens. 1 | SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |
| | |

<u>History</u>

| : | 29 August 2024 |
|---|----------------|
| : | 22 May 2024 |
| : | EHS |
| : | 1.02 |
| | : |

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.