# SAFETY DATA SHEET

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

| 1.1 Product identifier   |   |              |
|--|---|--------------|
| Product name   | : MACROPOXY G280 Epoxy Blast Primer - Base                    |              |
| Product code   | : G280B   |              |
|  |   |              |
|  | es of the substance or mixture and uses advised against       |              |
| Material uses  | : Paint or paint related material.                            |              |
|  | : Industrial use only.  |              |
| 1.3 Details of the supplier  | of the safety data  |              |
| sheet  |   |              |
| Sherwin-Williams UK Limit<br>Coatings Division EMEAI<br>Tower Works<br>Kestor Street<br>Bolton<br>BL2 2AL<br>United Kingdom<br>+44 (0) 1204 521771 | ed - Protective & Marine                                      |              |
| +44 (0) 1204 321771  |   |              |
| The Sherwin-Williams Com<br>Inver France SAS<br>2 Rue Jean Revaus - BP 8<br>Thouars CEDEX<br>France  |   |              |
| e-mail address of person<br>responsible for this SDS   |   |              |
| 1.4 Emergency telephone  | number  |              |
| National advisory body/P   |   |              |
| Telephone number   |   |              |
| <u>Supplier</u>  |   |              |
| Telephone number   | : +(44)-870-8200 418  |              |
| •  | : Emergency contact available 24 hours a day                  |              |
| Hours of operation   | : Energency contact available 24 hours a day                  |              |
| SECTION 2: Hazards i   | dentification   |              |
| 2.1 Classification of the su   | Ibstance or mixture   |              |
| Product definition   | : Mixture   |              |
| Classification according   | to Regulation (EC) No. 1272/2008 [CLP/GHS]                    |              |
| Flam. Liq. 2, H225   |   |              |
| Skin Irrit. 2, H315  |   |              |
| Eye Irrit. 2, H319<br>Repr. 2, H361d   |   |              |
| STOT SE 3, H336  |   |              |
| STOT RE 2, H373  |   |              |
| Asp. Tox. 1, H304  |   |              |
| Aquatic Chronic 3, H412  |   |              |
| Date of issue/Date of revision   | : 15, Apr, 2024 <b>Date of previous issue</b> : 17, Sep, 2023 | Version : 10 |
| Bate of 10000/Bate of 16131011   |   |              |

#### **SECTION 2: Hazards identification**

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

| Hazard pictograms              |  |
|--------------------------------|--|
|                                |  |
|                                |  |
| Signal word                    | : Danger   |
| Hazard statements              | <ul> <li>Highly flammable liquid and vapor.<br/>May be fatal if swallowed and enters airways.<br/>Causes skin irritation.<br/>Causes serious eye irritation.<br/>May cause drowsiness or dizziness.<br/>Suspected of damaging the unborn child.<br/>May cause damage to organs through prolonged or repeated exposure.<br/>Harmful to aquatic life with long lasting effects.</li> </ul> |
| Precautionary statements       |  |
| Prevention                     | : Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe vapor.  |
| Response                       | : IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.  |
| Storage                        | : Not applicable.  |
| Disposal                       | : Not applicable.  |
| Hazardous ingredients          | : Toluene<br>2-Propanol  |
| Supplemental label<br>elements | : Contains epoxy constituents. May produce an allergic reaction. FOR INDUSTRIAL USE ONLY   |
| Special packaging require      | nents  |
| Not applicable.                |  |
|                                |  |
| <u>2.3 Other hazards</u>       |  |
|                                | This mixture does not contain any substances that are assessed to be a PBT or a  |

|   | This mixture does not contain any substances that are assessed to be a PBT or a vPvB.   |
|---|---|
|   | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| Other hazards which do not result in classification | : None known.   |

#### **SECTION 3: Composition/information on ingredients**

:

#### 3.2 Mixture

#### Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II MACROPOXY G280 Epoxy Blast Primer - Base

MACROPOXY G280 Epoxy Blast Primer - Bas

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#### **SECTION 3: Composition/information on ingredients**

| Product/ingredient name     | Identifiers   | %         | Classification   | Specific Conc.<br>Limits, M-factors<br>and ATEs | Туре           |
|-----------------------------|---|-----------|--|---|----------------|
| Toluene                     | REACH #:<br>01-2119471310-51<br>EC: 203-625-9<br>CAS: 108-88-3<br>Index: 601-021-00-3 | ≥25 - ≤50 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3,<br>H412 | -   | [1] [2]        |
| 2-Propanol                  | REACH #:<br>01-2119457558-25<br>EC: 200-661-7<br>CAS: 67-63-0<br>Index: 603-117-00-0  | ≥10 - ≤25 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336  | -   | [1] [2]        |
| 4,4'-Isopropylidenediphenol |   | <0.1<br>3 | Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Repr. 1B, H360F<br>STOT SE 3, H335<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1,<br>H410                  | M [Acute] = 1<br>M [Chronic] = 10               | [1] [2]<br>[3] |
|                             |   |           | See Section 16 for<br>the full text of the H<br>statements declared<br>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.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

|                            | reasures  |
|----------------------------|---|
| General                    | <ul> <li>In all cases of doubt, or when symptoms persist, seek medical attention. Never give<br/>anything by mouth to an unconscious person. If unconscious, place in recovery<br/>position and seek medical advice.</li> </ul>   |
| Eye contact                | <ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the<br/>eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>   |
| Inhalation                 | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is<br>irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by<br>trained personnel.  |
| Skin contact               | <ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and<br/>water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>  |
| Ingestion                  | <ul> <li>If swallowed, seek medical advice immediately and show this container or label.</li> <li>Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>  |
| Protection of first-aiders | No action shall be taken involving any personal risk or without suitable training. If it<br>is suspected that fumes are still present, the rescuer should wear an appropriate<br>mask or self-contained breathing apparatus. It may be dangerous to the person<br>providing aid to give mouth-to-mouth resuscitation. |

#### 4.2 Most important symptoms and effects, both acute and delayed

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#### **SECTION 4: First aid measures**

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

#### 4.3 Indication of any immediate medical attention and special treatment needed

| Notes to physician  | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul> |
|---------------------|---|
| Specific treatments | : No specific treatment.  |

See toxicological information (Section 11)

| SECTION 5: Firefighting measures                           |  |  |  |  |
|--|--|--|--|--|
| 5.1 Extinguishing media<br>Suitable extinguishing<br>media | : Recommended: alcohol-resistant foam, CO <sub>2</sub> , powders, water spray or mist.                                     |  |  |  |
| Unsuitable extinguishing<br>media                          | : Do not use water jet.  |  |  |  |
| 5.2 Special hazards arising f                              | 5.2 Special hazards arising from the substance or mixture  |  |  |  |
| Hazards from the substance or mixture                      | <ul> <li>Fire will produce dense black smoke. Exposure to decomposition products may<br/>cause a health hazard.</li> </ul> |  |  |  |
| Hazardous combustion<br>products                           | : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.  |  |  |  |
| 5.3 Advice for firefighters                                |  |  |  |  |
| Special protective actions<br>for fire-fighters            | : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.            |  |  |  |
| Special protective equipment for fire-fighters             | : Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.             |  |  |  |

#### **SECTION 6: Accidental release measures**

| 6.1 Personal precautions, protective equipment and emergency procedures |   |   |
|---|---|---|
| For non-emergency<br>personnel  | : | Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist.<br>Refer to protective measures listed in sections 7 and 8.  |
|   |   | Keep unnecessary and unprotected personnel from entering.   |
| For emergency responders  | : | If specialized 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   | : | Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.  |
| 6.3 Methods and materials<br>for containment and<br>cleaning up         | : | 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). Preferably clean with a detergent. Avoid using solvents. |
| <i>6.4 Reference to other sections</i>                                  | : | See Section 1 for emergency contact information.<br>See Section 8 for information on appropriate personal protective equipment.<br>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<br>handling | <ul> <li>Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another.</li> <li>Operators should wear antistatic footwear and clothing and floors should be of the conducting type.</li> <li>Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.</li> <li>Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.</li> <li>Put on appropriate personal protective equipment (see Section 8).</li> <li>Never use pressure to empty. Container is not a pressure vessel.</li> <li>Always keep in containers made from the same material as the original one.</li> <li>Comply with the health and safety at work laws.</li> <li>Do not allow to enter drains or watercourses.</li> <li>Information on fire and explosion protection</li> <li>Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air.</li> <li>When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapors in all</li> </ul> |
|--------------------------------------|--|
|                                      |  |

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#### **SECTION 7: Handling and storage**

| 7.2 Conditions for safe<br>storage, including any<br>incompatibilities | <ul> <li>Store in accordance with local regulations.</li> <li>Notes on joint storage</li> <li>Keep away from: oxidizing agents, strong alkalis, strong acids.</li> <li>Additional information on storage conditions</li> <li>Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking.</li> <li>Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.</li> </ul> |  |  |
|--|---|--|--|
|  | Contaminated absorbent material may pose the same hazard as the spilled product.<br>Store in closed original container at temperatures between 5°C and 25°C.  |  |  |
| 7.3 Specific end use(s)<br>Recommendations                             | : Not available.  |  |  |

| Recommendations                      | : Not available. |
|--------------------------------------|------------------|
| Industrial sector specific solutions | : Not available. |
| oolutionio                           |                  |

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

# Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

#### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters

#### **Occupational exposure limits**

| Product/ingredient name     | Exposure limit values  |
|-----------------------------|--|
| Toluene                     | Working Environment Authority (Denmark, 6/2022). Absorbed<br>through skin.<br>TWA: 25 ppm 8 hours.<br>TWA: 94 mg/m <sup>3</sup> 8 hours.<br>STEL: 384 mg/m <sup>3</sup> 15 minutes.<br>STEL: 100 ppm 15 minutes. |
| 2-Propanol                  | Working Environment Authority (Denmark, 6/2022).<br>TWA: 200 ppm 8 hours.<br>TWA: 490 mg/m <sup>3</sup> 8 hours.<br>STEL: 980 mg/m <sup>3</sup> 15 minutes.<br>STEL: 400 ppm 15 minutes.                         |
| 4,4'-Isopropylidenediphenol | Working Environment Authority (Denmark, 6/2022).<br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: suspended dust<br>STEL: 4 mg/m <sup>3</sup> 15 minutes. Form: suspended dust   |

#### **Biological exposure indices**

No exposure indices known.

| Recommended monitoring procedures | <ul> <li>Reference should be made to monitoring standards, such as the following:<br/>European Standard EN 689 (Workplace atmospheres - Guidance for the<br/>assessment of exposure by inhalation to chemical agents for comparison with limit<br/>values and measurement strategy) European Standard EN 14042 (Workplace<br/>atmospheres - Guide for the application and use of procedures for the assessment<br/>of exposure to chemical and biological agents) European Standard EN 482<br/>(Workplace atmospheres - General requirements for the performance of procedures<br/>for the measurement of chemical agents) Reference to national guidance<br/>documents for methods for the determination of hazardous substances will also be<br/>required.</li> </ul> |
|-----------------------------------|---|
|                                   | <ul> <li>Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.</li> </ul>  |

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### **SECTION 8: Exposure controls/personal protection**

#### DNELs/DMELs

| Product/ingredient name | Туре | Exposure                 | Value                  | Population  | Effects  |
|-------------------------|------|--------------------------|------------------------|---|----------|
| Toluene                 | DNEL | Short term<br>Inhalation | 226 mg/m <sup>3</sup>  | General<br>population<br>[Human via the<br>environment] | Systemic |
|                         | DNEL | Short term<br>Inhalation | 226 mg/m³              | General<br>population<br>[Human via the<br>environment] | Local    |
|                         | DNEL | Long term Dermal         | 226 mg/m³              | General<br>population<br>[Human via the<br>environment] | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 226 mg/kg<br>bw/day    | General<br>population<br>[Human via the<br>environment] | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 56.5 mg/m³             | General<br>population<br>[Human via the<br>environment] | Systemic |
|                         | DNEL | Long term Oral           | 8.13 mg/<br>kg bw/day  | General<br>population<br>[Human via the<br>environment] | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 192 mg/m³              | Workers   | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 192 mg/m³              | Workers   | Local    |
|                         | DNEL | Short term<br>Inhalation | 384 mg/m³              | Workers   | Systemic |
|                         | DNEL | Short term<br>Inhalation | 384 mg/m³              | Workers   | Local    |
|                         | DNEL | Long term Dermal         | 384 mg/kg<br>bw/day    | Workers   | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 56.5 mg/m <sup>3</sup> | General<br>population<br>[Consumers]                    | Local    |
| 2-Propanol              | DNEL | Long term Dermal         | 888 mg/kg<br>bw/day    | Workers   | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 500 mg/m <sup>3</sup>  | Workers   | Systemic |
|                         | DNEL | Long term Dermal         | 319 mg/kg<br>bw/day    | General<br>population<br>[Consumers]                    | Systemic |
|                         | DNEL | Long term<br>Inhalation  | 89 mg/m³               | General<br>population<br>[Consumers]                    | Systemic |
|                         | DNEL | Long term Oral           | 26 mg/kg<br>bw/day     | General<br>population<br>[Consumers]                    | Systemic |

#### **PNECs**

### **SECTION 8: Exposure controls/personal protection**

| Product/ingredient name | Compartment Detail        | Value           | Method Detail      |
|-------------------------|---------------------------|-----------------|--------------------|
| Toluene                 | Fresh water sediment      | 0.68 mg/l       | Assessment Factors |
|                         | Marine water sediment     | 0.68 mg/l       | Assessment Factors |
|                         | Sewage Treatment<br>Plant | 13.61 mg/l      | Assessment Factors |
|                         | Soil                      | 2.89 mg/kg      | Assessment Factors |
|                         | Fresh water sediment      | 16.39 mg/kg dwt | -                  |
|                         | Marine water sediment     | 16.39 mg/kg dwt | -                  |
| 2-Propanol              | Fresh water               | 140.9 mg/l      | -                  |
|                         | Marine water              | 140.9 mg/l      | -                  |
|                         | Sewage Treatment<br>Plant | 2251 mg/l       | -                  |
|                         | Sediment                  | 552 mg/kg dwt   | -                  |
|                         |                           | 28 mg/kg        | -                  |
|                         | Secondary Poisoning       | 160 mg/kg       | -                  |

| 8.2 Exposure controls            |  |
|----------------------------------|--|
| Appropriate engineering controls | Provide adequate ventilation. Where reasonably practicable, this should be<br>achieved by the use of local exhaust ventilation and good general extraction. If<br>these are not sufficient to maintain concentrations of particulates and solvent vapors<br>below the OEL, suitable respiratory protection must be worn.   |
|                                  | <ul> <li>Users are advised to consider national Occupational Exposure Limits or other<br/>equivalent values.</li> </ul>  |
| Individual protection mea        | sures  |
| 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.  |
| Eye/face protection              | : Use safety eyewear designed to protect against splash of liquids.  |
| Skin protection                  |  |
| Hand protection                  | : Wear suitable gloves tested to EN374.  |
| Gloves                           | <ul> <li>Gloves for short term exposure/splash protection (less than 10 min.): Nitrile&gt;0.12 mm</li> <li>Gloves for splash protection need to be changed immediately when in contact with chemicals.</li> <li>Gloves for repeated or prolonged exposure (breakthrough time &gt; 240 min.)</li> <li>When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm</li> <li>Otherwise use: Butyl gloves &gt;0.3 mm</li> <li>For long term exposure or spills (breakthrough time &gt;480 min.): Use PE laminated gloves as under gloves</li> <li>Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing.</li> <li>The recommendation for the type or types of glove to use when handling this product is based on information from the following source: Solvent resin</li> </ul> |
|                                  | <ul> <li>manufacturers and European Solvents Industry Group (ESIG)</li> <li>There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.</li> <li>The breakthrough time must be greater than the end use time of the product.</li> <li>The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.</li> <li>Gloves should be replaced regularly and if there is any sign of damage to the glove material.</li> <li>Always ensure that gloves are free from defects and that they are stored and used</li> </ul>  |
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#### **SECTION 8: Exposure controls/personal protection**

|                                 | correctly.<br>The performance or effectiveness of the glove may be reduced by physical/chemical<br>damage and poor maintenance.<br>Barrier creams may help to protect the exposed areas of the skin but should not be<br>applied once exposure has occurred.<br>The user must check that the final choice of type of glove selected for handling this<br>product is the most appropriate and takes into account the particular conditions of<br>use, as included in the user's risk assessment.  |
|---------------------------------|--|
| Body protection                 | <ul> <li>Personnel should wear antistatic clothing made of natural fibers or of high-<br/>temperature-resistant synthetic fibers.</li> </ul>   |
|                                 | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves. Refer to<br>European Standard EN 1149 for further information on material and design<br>requirements and test methods. |
| Other skin protection           | <ul> <li>Appropriate footwear and any additional skin protection measures should be<br/>selected based on the task being performed and the risks involved and should be<br/>approved by a specialist before handling this product.</li> </ul>  |
| Respiratory protection          | <ul> <li>Application methods:<br/>Brush or roller. Approved/certified respirator with organic vapor cartridge. Filter type:<br/>A2 P2 (EN14387).</li> <li>Manual spraying. Use a properly fitted, air-purifying or air-fed respirator complying<br/>with an approved standard if a risk assessment indicates this is necessary.</li> </ul>   |
| Environmental exposure controls | : Do not allow to enter drains or watercourses.  |

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

#### **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

| Appearance                                 |   |    |
|--|---|----|
| Physical state                             | : Liquid.   |    |
| Color                                      | : Orange.   |    |
| Odor                                       | : Paint   |    |
| Odor threshold                             | : Not Available (Not Tested).   |    |
| pН   | <ul> <li>Not relevant/applicable due to nature of the product.<br/>insoluble in water.</li> </ul> |    |
| Melting point/freezing point               | : Not relevant/applicable due to nature of the product.   |    |
| Initial boiling point and<br>boiling range | : 81°C  |    |
| Flash point                                | : Closed cup: 12°C [Pensky-Martens Closed Cup]  |    |
| Evaporation rate                           | : 2 (butyl acetate = 1)   |    |
| Flammability                               | : Flammable liquid.   |    |
| Lower and upper explosion<br>limit         | : LEL: 1% (Toluene)<br>UEL: 12.7% (2-Propanol)  |    |
| Vapor pressure                             | : 4.4 kPa (33 mm Hg)  |    |
| Relative vapor density                     | : 2.07 [Air = 1]  |    |
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#### **SECTION 9: Physical and chemical properties**

| Relative density | : 1.22      |  |
|------------------|-------------|--|
| Solubility(ies)  | :           |  |
| Media            | Result      |  |
| cold water       | Not soluble |  |

**Partition coefficient:** n-octanol/ : Not relevant/applicable due to nature of the product. water

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#### Auto-ignition temperature

| Ingredient name                            |   |                        | °C                          | c           | F           |          | Method                               |
|--|---|------------------------|-----------------------------|-------------|-------------|----------|--------------------------------------|
| 2-Propanol<br>Toluene                      |   |                        | 398<br>480                  | 7           | 48.4<br>96  |          |                                      |
| Decomposition temperature                  |   | : Not rele             | evant/applic                | able due    | to nature o | of the p | roduct.                              |
| Viscosity                                  |   | : Kinema               | atic (40°C): ·              | <20.5 mm    | n²/s        |          |                                      |
| Explosive properties                       |   | : Under r              | normal cond                 | ditions of  | storage an  | nd use,  | hazardous reactions will not occu    |
| Oxidizing properties                       |   | : Under r              | normal cond                 | ditions of  | storage an  | nd use,  | hazardous reactions will not occu    |
| Particle characteristics                   |   |                        |                             |             |             |          |                                      |
| Median particle size                       |   | : Not rele             | evant/applica               | able due    | to nature o | of the p | roduct.                              |
| 9.2 Other information                      |   |                        |                             |             |             |          |                                      |
| Heat of combustion                         |   | : 13.794               | kJ/g                        |             |             |          |                                      |
| SECTION 10: Stability an                   | d | reactivity             | ,                           |             |             |          |                                      |
| 10.1 Reactivity                            | : | No specific            | test data re                | elated to r | eactivity a | vailable | ofor this product or its ingredients |
| 10.2 Chemical stability                    | : | Stable unde            | er recomme                  | ended sto   | rage and h  | nandling | g conditions (see Section 7).        |
| 10.3 Possibility of<br>hazardous reactions | : | Under norm             | nal conditio                | ns of stor  | age and us  | se, haz  | ardous reactions will not occur.     |
| 10.4 Conditions to avoid                   | : | When expo<br>products. | osed to high                | tempera     | tures may   | produc   | e hazardous decomposition            |
| 10.5 Incompatible materials                | : |                        | from the fo<br>gents, stron |             |             |          | nt strong exothermic reactions:      |
| 10.6 Hazardous<br>decomposition products   | : | •                      | ition produc<br>kide, smoke |             |             |          | g materials: carbon monoxide,        |

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

#### **SECTION 11: Toxicological information**

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

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#### **SECTION 11: Toxicological information**

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

#### Acute toxicity

| Product/ingredient name     | Result                | Species | Dose        | Exposure |
|-----------------------------|-----------------------|---------|-------------|----------|
| Toluene                     | LC50 Inhalation Vapor | Rat     | 49 g/m³     | 4 hours  |
|                             | LD50 Oral             | Rat     | 636 mg/kg   | -        |
| 2-Propanol                  | LD50 Dermal           | Rabbit  | 12800 mg/kg | -        |
|                             | LD50 Oral             | Rat     | 5000 mg/kg  | -        |
| 4,4'-Isopropylidenediphenol | LD50 Oral             | Rat     | 1200 mg/kg  | -        |

#### Acute toxicity estimates

No data available

#### Irritation/Corrosion

| Product/ingredient name     | Result                   | Species | Score | Exposure     | Observation |
|-----------------------------|--------------------------|---------|-------|--------------|-------------|
| Toluene                     | Eyes - Mild irritant     | Rabbit  | -     | 0.5 minutes  | -           |
|                             |                          |         |       | 100 mg       |             |
|                             | Eyes - Mild irritant     | Rabbit  | -     | 870 ug       | -           |
|                             | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 2   | -           |
|                             |                          |         |       | mg           |             |
|                             | Skin - Mild irritant     | Pig     | -     | 24 hours 250 | -           |
|                             |                          |         |       | uL           |             |
|                             | Skin - Mild irritant     | Rabbit  | -     | 435 mg       | -           |
|                             | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20  | -           |
|                             |                          |         |       | mg           |             |
|                             | Skin - Moderate irritant | Rabbit  | -     | 500 mg       | -           |
| 2-Propanol                  | Eyes - Moderate irritant | Rabbit  | -     | 10 mg        | -           |
|                             | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 | -           |
|                             |                          |         |       | mg           |             |
|                             | Eyes - Severe irritant   | Rabbit  | -     | 100 mg       | -           |
|                             | Skin - Mild irritant     | Rabbit  | -     | 500 mg       | -           |
| 4,4'-Isopropylidenediphenol | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 250 | -           |
|                             |                          |         |       | ug           |             |
|                             | Skin - Mild irritant     | Rabbit  | -     | 250 mg       | -           |
|                             | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 | -           |
|                             |                          |         |       | mg           |             |
| Conclusion/Summary          | : Not available.         | ·       | •     | ·            |             |
| Sensitization               |                          |         |       |              |             |
| No data available           |                          |         |       |              |             |
|                             |                          |         |       |              |             |
| Conclusion/Summary          | : Not available.         |         |       |              |             |

#### **Mutagenicity**

No data available

#### **Carcinogenicity**

No data available

#### **SECTION 11: Toxicological information**

#### **Reproductive toxicity**

No data available

#### **Teratogenicity**

No data available

#### Specific target organ toxicity (single exposure)

| Product/ingredient name                              | Category                               | Route of exposure | Target organs   |
|--|--|-------------------|---|
| Toluene<br>2-Propanol<br>4,4'-Isopropylidenediphenol | Category 3<br>Category 3<br>Category 3 | -                 | Narcotic effects<br>Narcotic effects<br>Respiratory tract<br>irritation |

#### Specific target organ toxicity (repeated exposure)

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

#### Aspiration hazard

| Product/ingredient name | Result                         |
|-------------------------|--------------------------------|
| Toluene                 | ASPIRATION HAZARD - Category 1 |

#### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Not available.

#### 11.2.2 Other information

Not available.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

| Product/ingredient name            | Result                               | Species  | Exposure |
|------------------------------------|--------------------------------------|--|----------|
| Toluene                            | Acute EC50 >433 ppm Marine water     | Algae - Skeletonema costatum   | 96 hours |
|                                    | Acute EC50 11600 µg/l Fresh water    | Crustaceans - <i>Gammarus</i><br>pseudolimnaeus - Adult                          | 48 hours |
|                                    | Acute EC50 6000 μg/l Fresh water     | Daphnia - <i>Daphnia magna</i> -<br>Juvenile (Fledgling, Hatchling,<br>Weanling) | 48 hours |
|                                    | Acute LC50 5500 μg/l Fresh water     | Fish - Oncorhynchus kisutch -  | 96 hours |
|                                    | Chronic NOEC 1 mg/l Fresh water      | Daphnia - Daphnia magna  | 21 days  |
| 2-Propanol                         | Acute EC50 7550 mg/l Fresh water     | Daphnia - <i>Daphnia magna</i> -<br>Neonate                                      | 48 hours |
|                                    | Acute LC50 1400000 µg/l Marine water | Crustaceans - Crangon crangon  | 48 hours |
|                                    | Acute LC50 4200 mg/l Fresh water     | Fish - Rasbora heteromorpha  | 96 hours |
| 4,4'-Isopropylidenediphenol        | Acute EC50 1.506 mg/l Marine water   | Algae - <i>Prorocentrum minimum</i> - Exponential growth phase                   | 72 hours |
|                                    | Acute EC50 1800 µg/l Marine water    | Algae - Skeletonema costatum   | 96 hours |
|                                    | Acute EC50 7.3 mg/l Fresh water      | Daphnia - Daphnia magna -  | 48 hours |
| Date of issue/Date of revision : 1 | 15, Apr, 2024 Date of previous issue | :17, Sep, 2023 Version :10   | 12/29    |
|                                    |                                      |  |          |

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### **SECTION 12: Ecological information**

|           |                          | Neonate   |          |
|-----------|--------------------------|---|----------|
| Acute LC5 | 0 1.34 mg/l Marine water | Crustaceans - <i>Americamysis</i><br><i>bahia</i> - Larvae        | 48 hours |
| Acute LC5 | 0 3.5 mg/l Marine water  | Fish - <i>Rivulus marmoratus -</i><br>Embryo                      | 96 hours |
| Chronic N | OEC 2 mg/l Fresh water   | Algae - <i>Chlorolobion braunii</i> -<br>Exponential growth phase | 4 days   |
| Chronic N | OEC 10 μg/l Marine water | Crustaceans - <i>Tigriopus</i><br><i>japonicus</i> - Nauplii      | 21 days  |
| Chronic N | OEC 30 μg/l Fresh water  | Daphnia - <i>Daphnia magna -</i><br>Neonate                       | 21 days  |
| Chronic N | OEC 0.2 μg/l Fresh water | Fish - <i>Carassius auratus -</i> Adult                           | 90 days  |

#### 12.2 Persistence and degradability

| Product/ingredient name | Test              | Result |            | Dose |                    | Inoculum   |
|-------------------------|-------------------|--------|------------|------|--------------------|------------|
| No data available       |                   |        |            |      |                    |            |
| Conclusion/Summary      | : Not available.  |        |            |      |                    |            |
| Product/ingredient name | Aquatic half-life |        | Photolysis |      | Biodeg             | radability |
| Toluene<br>2-Propanol   | -                 |        | -          |      | Readily<br>Readily |            |

#### 12.3 Bioaccumulative potential

| Product/ingredient name     | LogPow | BCF      | Potential |
|-----------------------------|--------|----------|-----------|
| Toluene                     | -      | 90       | Low       |
| 4,4'-Isopropylidenediphenol | -      | 20 to 67 | Low       |

| 12.4 Mobility in soil                     |                  |
|---|------------------|
| Soil/water partition<br>coefficient (Koc) | : Not available. |
| Mobility                                  | : Not available. |

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

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

#### **SECTION 13: Disposal considerations**

| Hazardous waste                   | : | Yes.   |
|-----------------------------------|---|--|
| European waste<br>catalogue (EWC) | : | waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*  |
| Disposal considerations           | : | Do not allow to enter drains or watercourses.<br>Dispose of according to all federal, state and local applicable regulations.<br>If this product is mixed with other wastes, the original waste product code may no<br>longer apply and the appropriate code should be assigned.<br>For further information, contact your local waste authority.   |
| <u>Packaging</u>                  |   |  |
| Methods of disposal               | : | The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.   |
| Disposal considerations           | : | Using information provided in this safety data sheet, advice should be obtained from<br>the relevant waste authority on the classification of empty containers. Empty<br>containers must be scrapped or reconditioned. Dispose of containers contaminated<br>by the product in accordance with local or national legal provisions.   |
| European waste<br>catalogue (EWC) | : | packaging containing residues of or contaminated by hazardous substances 15 01 10*   |
| 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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers. |
|                                   |   |  |

# SECTION 14: Transport information

|   | ADR/RID   | IMDG                                   | ΙΑΤΑ   |
|---|---|--|--------|
| 14.1 UN number<br>or ID number                  | UN1263  | UN1263                                 | UN1263 |
| 14.2 UN proper shipping name                    | PAINT   | PAINT                                  | PAINT  |
| 14.3 Transport<br>Hazard Class(es)/<br>Label(s) | 3   | 3                                      | 3      |
| 14.4 Packing<br>group                           | 11  | 11                                     | II     |
| 14.5<br>Environmental<br>hazards                | No.   | No.                                    | No.    |
| Additional information                          | <u>Special provisions</u> 640 (C)<br><u>Tunnel code</u> D/E | <u>Emergency schedules</u> F-E,<br>S-E | -      |

user

14.6 Special 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 Maritime transport in : Not applicable. bulk according to IMO instruments

#### **SECTION 14: Transport information**

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

#### **SECTION 15: Regulatory information**

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorization

#### Annex XIV

None of the components are listed.

#### Substances of very high concern

| Ingredient name             | Intrinsic property                                     | Status      | Reference<br>number | Date of revision |
|-----------------------------|--|-------------|---------------------|------------------|
| 4,4'-Isopropylidenediphenol | Toxic to reproduction                                  | Recommended | ED/01/2018          | 10/1/2019        |
| 4,4'-Isopropylidenediphenol | Endocrine disrupting<br>properties for human<br>health | Recommended | ED/01/2018          | 10/1/2019        |
| 4,4'-Isopropylidenediphenol | Endocrine disrupting<br>properties for<br>environment  | Recommended | ED/01/2018          | 10/1/2019        |

#### <u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous</u> <u>substances, mixtures and articles</u>

| Product/ingredient name                  | %         | Designation [Usage] |
|--|-----------|---------------------|
| MACROPOXY G280 Epoxy Blast Primer - Base | ≥90       | 3                   |
| toluene                                  | ≥25 - ≤50 | 48                  |
| 4,4'-isopropylidenediphenol              | <0.1      | 66                  |

| Labeling        |               | : | Not applicable |     | э. |
|-----------------|---------------|---|----------------|-----|----|
| Other EU regula | <u>ations</u> |   |                |     |    |
| VOC content     | (2010/75/EU)  | : | 48.9           | w/w |    |

# 596 g/l

#### **Explosive precursors** : Not applicable.

#### Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

#### National regulations

| Danish fire class | : I-1 |
|-------------------|-------|
|-------------------|-------|

#### Executive Order No. 1795/2015

| Ingredient name | Annex I Section A | Annex I Section B |
|-----------------|-------------------|-------------------|
| propan-2-ol     | Listed            | -                 |
|                 | •                 | -                 |

# MAL-code 93 : 5-3 Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

| Date of issue/Date of revision | : 15, Apr, 2024 | Date of previous issue | :17, Sep, 2023 | Version : 10       | 15/29 |
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|                                |                 |                        |                | SHW-A4-EU-CLP44-DK |       |

#### **SECTION 15: Regulatory information**

In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

MAL-code: 5-3

**Application:** When spraying in new\* booths if the operator is outside the spray zone. During non-atomizing spraying in existing\* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing\* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing\* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution** The regulations contain other stipulations in addition to the above.

\*See Regulations.

MAL-code for ready-for- : 5-3

use mixture

# Protection based on MAL: According to the regulations on work involving coded products, the following<br/>stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling.Apron/coveralls/ protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product.A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, respiratory protection with air supply and arm protectors/apron/coveralls/protective clothing must be worn as appropriate or as instructed.

### **SECTION 15: Regulatory information**

#### MAL-code: 5-3

|                                    | <b>Application:</b> When spraying in new* booths if the operator is outside the spray zone. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin. |
|------------------------------------|---|
|                                    | - Air-supplied full mask must be worn.  |
|                                    | When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone. During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.   |
|                                    | - Air-supplied full mask and coveralls must be worn.  |
|                                    | When spraying in existing* spray booths, if the operator is outside the spray zone.   |
|                                    | - Air-supplied full mask, arm protectors and apron must be worn.  |
|                                    | During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.   |
|                                    | - Air-supplied full mask, coveralls and hood must be worn.  |
|                                    | <b>Drying:</b> Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.   |
|                                    | <b>Polishing:</b> When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.   |
|                                    | <b>Caution</b> The regulations contain other stipulations in addition to the above.   |
|                                    | *See Regulations.   |
| Low-boiling liquids                | : This product contains low-boiling point liquids. Any respiratory protective equipment should be air-fed.  |
| Restrictions on use                | Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order regarding Young People At Work.  |
| List of undesirable substances     | : Listed  |
| 15.2 Chemical Safety<br>Assessment | No Chemical Safety Assessment has been carried out.   |

#### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

| Abbreviations and<br>acronyms                     | <ul> <li>ATE = Acute Toxicity Estimate<br/>CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.<br/>1272/2008]<br/>DMEL = Derived Minimal Effect Level<br/>DNEL = Derived No Effect Level<br/>EUH statement = CLP-specific Hazard statement<br/>PBT = Persistent, Bioaccumulative and Toxic<br/>PNEC = Predicted No Effect Concentration<br/>RRN = REACH Registration Number<br/>vPvB = Very Persistent and Very Bioaccumulative<br/>N/A = Not available</li> </ul>   |
|---|--|
| Key literature references<br>and sources for data | <ul> <li>Regulation (EC) No. 1272/2008 [CLP]<br/>ADR = The European Agreement concerning the International Carriage of<br/>Dangerous Goods by Road<br/>IATA = International Air Transport Association<br/>IMDG = International Maritime Dangerous Goods<br/>Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by<br/>Commission Regulation (EU) 2020/878<br/>Directive 2012/18/EU, and relative amendments &amp; additions<br/>Directive 2008/98/EC, and relative amendments &amp; additions<br/>Directive 2009/161/EU, and relative amendments &amp; additions<br/>CEPE Guidelines</li> </ul> |

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

| Class   | ification  | Justification   |
|---|--|---|
| Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361d<br>STOT SE 3, H336<br>STOT RE 2, H373<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412 |  | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method<br>Calculation method   |
| Full text of abbreviated H<br>statements  | H304 Ma<br>H315 Ca<br>H317 Ma<br>H318 Ca<br>H319 Ca<br>H335 Ma<br>H336 Ma<br>H360F Ma<br>H361d Su<br>H361d Su<br>H373 Ma<br>ex<br>H400 Ve<br>H410 Ve | ghly flammable liquid and vapor.<br>ay be fatal if swallowed and enters airways.<br>auses skin irritation.<br>ay cause an allergic skin reaction.<br>auses serious eye damage.<br>auses serious eye irritation.<br>ay cause respiratory irritation.<br>ay cause drowsiness or dizziness.<br>ay damage fertility.<br>Ispected of damaging the unborn child.<br>ay cause damage to organs through prolonged or repeated<br>posure.<br>ery toxic to aquatic life.<br>ery toxic to aquatic life with long lasting effects.<br>armful to aquatic life with long lasting effects. |
| Full text of classifications<br>[CLP/GHS]   | : Aquatic Acute 1<br>Aquatic Chronic 1<br>Aquatic Chronic 3<br>Asp. Tox. 1<br>Eye Dam. 1<br>Eye Irrit. 2<br>Flam. Liq. 2<br>Repr. 1B                 | AQUATIC HAZARD (ACUTE) - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 3<br>ASPIRATION HAZARD - Category 1<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2<br>FLAMMABLE LIQUIDS - Category 2<br>TOXIC TO REPRODUCTION - Category 1B  |
| Date of issue/Date of revision  | : 15, Apr, 2024 Da   | te of previous issue : 17, Sep, 2023 Version : 10 18/29   |

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#### **SECTION 16: Other information**

|                                 | Repr. 2TOXIC TO REPRODUCTION - Category 2Skin Irrit. 2SKIN CORROSION/IRRITATION - Category 2Skin Sens. 1SKIN SENSITIZATION - Category 1STOT RE 2SPECIFIC TARGET ORGAN TOXICITY (REPEATED<br>EXPOSURE) - Category 2 |
|---------------------------------|--|
|                                 | STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE<br>EXPOSURE) - Category 3   |
| Date of printing                | : 15, Apr, 2024.   |
| Date of issue/ Date of revision | : 15, Apr, 2024  |
| Date of previous issue          | : 17, Sep, 2023  |
|                                 | <ul> <li>If there is no previous validation date please contact your supplier for more<br/>information.</li> </ul>   |
| Version                         | : 10   |
|                                 |  |

#### Notice to reader

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

SUMI(s) will be added to the SDS for products if both the following conditions are met:

#### • The product is classified as hazardous for health

• The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

# SUMI Safe Use of Mixtures Information for end-users

#### : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

# **Operational conditions**

Title

Place of use : Indoor use

### **Risk management measures (RMM)**

| Contributing activity   | Process category          | Maximum           | Ventilation                             |                                       |  |
|---|---------------------------|-------------------|---|---------------------------------------|--|
|   | (ies)                     | duration          | Туре                                    | ach (air changes per<br>hour)         |  |
| Preparation of material for application   | PROC05                    | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |
| Industrial application of<br>coatings and inks by spraying                        | PROC07                    | More than 4 hours | Local exhaust ventilation               | Refer to relevant technical standards |  |
| Film formation - force drying, stoving and other technologies                     | PROC04                    | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |
| Cleaning  | PROC05                    | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |
| Waste management  | PROC08b                   | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |
| Contributing activity   | Process category<br>(ies) | Respiratory       | Eye                                     | Hands                                 |  |
| Preparation of material for application   | PROC05                    | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |
| Industrial application of<br>coatings and inks by spraying                        | PROC07                    |                   |   | Wear suitable gloves tested to EN374. |  |
| Film formation - force drying, stoving and other technologies                     | PROC04                    | None              | lone None                               |                                       |  |
| Cleaning  | PROC05                    | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |
| Waste management  | PROC08b                   | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |

See chapter 8 of this Safety Data Sheet for specifications.

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: No previous validation Version



# Disclaimer

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# SUMI Safe Use of Mixtures Information for end-users

: Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (enclosed application)

# **Operational conditions**

Place of use

Title

: Indoor use

# **Risk management measures (RMM)**

| Contributing activity   | Process category          | Maximum           | Ventil                                  | Ventilation                           |  |  |
|---|---------------------------|-------------------|---|---------------------------------------|--|--|
| (ies) duration  |                           | Туре              | ach (air changes per<br>hour)           |                                       |  |  |
| Preparation of material for application   | PROC05                    | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |
| Industrial application of<br>coatings and inks by other<br>than spraying          | PROC10, PROC13            | More than 4 hours | Local exhaust ventilation               | Refer to relevant technical standards |  |  |
| Film formation - force drying,<br>stoving and other technologies                  | PROC02                    | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |
| Cleaning  | PROC05                    |                   |   | Refer to relevant technical standards |  |  |
| Application equipment<br>cleaning outside booth                                   | PROC05                    | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |
| Waste management  | PROC08b                   | More than 4 hours | Enhanced (mechanical) room ventilation  | 5 - 10                                |  |  |
| Contributing activity   | Process category<br>(ies) | Respiratory       | Eye                                     | Hands                                 |  |  |
| Preparation of material for application   | PROC05                    | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |  |
| Industrial application of<br>coatings and inks by other<br>than spraying          | PROC10, PROC13            | None              | None                                    | None                                  |  |  |
| Film formation - force drying, stoving and other technologies                     | PROC02                    | None              | None                                    | None                                  |  |  |
| Cleaning  | PROC05                    | None              | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |  |  |

| MACROPOXY G280 Epoxy Blast Primer - Base     |         |      | Industrial application of coatings      | and inks by other than spraying-Enclosed |
|--|---------|------|---|--|
| Application equipment cleaning outside booth | PROC05  | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374.    |
| Waste management                             | PROC08b | None | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374.    |

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| SUMI                      |  |
|---------------------------|--|
| Safe Use of Mixtures      |  |
| Information for end-users |  |
|                           |  |

#### : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

## General description of the process covered

Paint application on industrial line with walk-in spray booth

## **Operational conditions**

Title

Place of use : Indoor use

### **Risk management measures (RMM)**

| Contributing activity   | Process category          | Maximum                                      | Ventilation  |                                       |  |
|---|---------------------------|--|--|---------------------------------------|--|
|   | (ies)                     | duration                                     | Туре   | ach (air changes per<br>hour)         |  |
| Preparation of material for application   | PROC05                    |  | Enhanced (mechanical) room<br>ventilation                | 5 - 10                                |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   |  | Enhanced (mechanical) room<br>ventilation                | 5 - 10                                |  |
| Industrial application of coatings and inks by spraying                           | PROC07                    | More than 4 hours                            | ocal exhaust ventilation                                 | Refer to relevant technical standards |  |
| Film formation - force drying, stoving and other technologies                     | PROC04                    |  | Enhanced (mechanical) room<br>ventilation                | 5 - 10                                |  |
| Cleaning  | PROC05                    | More than 4 hours                            | ocal exhaust ventilation                                 | Refer to relevant technical standards |  |
| Application equipment<br>cleaning outside booth                                   | PROC05                    |  | Enhanced (mechanical) room<br>ventilation                | 5 - 10                                |  |
| Waste management  | PROC08b                   |  | More than 4 hours Enhanced (mechanical) room ventilation |                                       |  |
| Contributing activity   | Process category<br>(ies) | Respiratory                                  | Eye  | Hands                                 |  |
| Preparation of material for application   | PROC05                    | None   | Use eye protection according to EN 166.                  | Wear suitable gloves tested to EN374. |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | None   | Use eye protection according to EN 166.                  | Wear suitable gloves tested to EN374. |  |
| Industrial application of<br>coatings and inks by spraying                        | PROC07                    |  |  | Wear suitable gloves tested to EN374. |  |
| Film formation - force drying, stoving and other technologies                     | PROC04                    | None None                                    |  | None                                  |  |
|   |                           | None Use eye protection according to EN 166. |  |                                       |  |
| Cleaning  | PROC05                    | None   |  | Wear suitable gloves tested to EN374. |  |

| MACROPOXY G280 Epoxy Blast Primer - Base |         |  | Blast Primer - Base Industrial spray painting, walk-in booth |                                       |
|--|---------|--|--|---------------------------------------|
| cleaning outside booth                   |         |  | according to EN 166.   | tested to EN374.                      |
| Waste management                         | PROC08b |  | , , ,  | Wear suitable gloves tested to EN374. |

See chapter 8 of this Safety Data Sheet for specifications.



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# SUMI Safe Use of Mixtures Information for end-users

#### : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line with fully-enclosed spraying

# **Operational conditions**

Title

Place of use : Indoor use

# **Risk management measures (RMM)**

| Contributing activity   | Process category<br>(ies) | Maximum<br>duration | Ventilation                             |                                       |
|---|---------------------------|---------------------|---|---------------------------------------|
|   |                           |                     | Туре                                    | ach (air changes per<br>hour)         |
| Preparation of material for application   | PROC05                    | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Industrial application of<br>coatings and inks by spraying                        | PROC07                    | More than 4 hours   | Full containment/extraction             | 100 or equivalent                     |
| Film formation - force drying, stoving and other technologies                     | PROC02                    | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Cleaning  | PROC05                    | More than 4 hours   | Local exhaust ventilation               | Refer to relevant technical standards |
| Application equipment<br>cleaning outside booth                                   | PROC05                    | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Waste management  | PROC08b                   | More than 4 hours   | Enhanced (mechanical) room ventilation  | 5 - 10                                |
| Contributing activity   | Process category<br>(ies) | Respiratory         | Eye                                     | Hands                                 |
| Preparation of material for application   | PROC05                    | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Loading of application<br>equipment and handling of<br>coated parts before curing | PROC08b                   | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Industrial application of<br>coatings and inks by spraying                        | PROC07                    | None                | None                                    | None                                  |
| Film formation - force drying,<br>stoving and other technologies                  | PROC02                    | None                | None                                    | None                                  |
| Cleaning  | PROC05                    | None                | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |
| Application equipment   | PROC05                    | None                | Use eye protection                      | Wear suitable gloves                  |

| MACROPOXY G280   | Epoxy Blast Prime | r - Base | Industrial                              | spray painting, enclosed              |
|------------------|-------------------|----------|---|---------------------------------------|
| Waste management | PROC08b           | None     | Use eye protection according to EN 166. | Wear suitable gloves tested to EN374. |

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# SUMI Safe Use of Mixtures Information for end-users

**Title** : Industrial application of coatings and inks by other than spraying-Local exhaust ventilation This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

# General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidized bed or curtain coating (local exhaust ventilation only)

# **Operational conditions**

Place of use

: Indoor use

# Risk management measures (RMM)

| Contributing activity  | Process category<br>(ies)           | Maximum           | Ventila  | Ventilation  |  |
|--|-------------------------------------|-------------------|--|--|--|
|  |                                     | duration          | Туре   | ach (air changes per<br>hour)  |  |
| Preparation of material for application  | PROC05                              | More than 4 hours | Enhanced (mechanical) room ventilation   | 5 - 10   |  |
| Loading of application<br>equipment and handling of<br>coated parts before curing  | PROC08b                             | More than 4 hours | Enhanced (mechanical) room ventilation   | 5 - 10   |  |
| Industrial application of<br>coatings and inks by other<br>than spraying   | PROC10, PROC13                      | More than 4 hours | Local exhaust ventilation  | Refer to relevant technical standards  |  |
| Film formation - force drying,<br>stoving and other technologies   | PROC04                              | More than 4 hours | Enhanced (mechanical) room ventilation   | 5 - 10   |  |
| Cleaning   | PROC05                              | More than 4 hours | Enhanced (mechanical) room ventilation   | 5 - 10   |  |
| Waste management   | PROC08b                             | More than 4 hours | Enhanced (mechanical) room ventilation   | 5 - 10   |  |
| Contributing activity  | Process category                    | Respiratory       | Eye  | Hands  |  |
|  | (ies)                               |                   |  |  |  |
| Preparation of material for application  | (ies)<br>PROC05                     | None              | Use eye protection according to EN 166.  | Wear suitable gloves tested to EN374.  |  |
|  | . ,                                 | None              |  |  |  |
| application<br>Loading of application<br>equipment and handling of   | PROC05                              |                   | according to EN 166.<br>Use eye protection   | tested to EN374.<br>Wear suitable gloves   |  |
| application<br>Loading of application<br>equipment and handling of<br>coated parts before curing<br>Industrial application of<br>coatings and inks by other<br>than spraying<br>Film formation - force drying, | PROC05<br>PROC08b                   | None              | according to EN 166.<br>Use eye protection<br>according to EN 166.<br>Use eye protection                         | tested to EN374.<br>Wear suitable gloves<br>tested to EN374.<br>Wear suitable gloves                     |  |
| application<br>Loading of application<br>equipment and handling of<br>coated parts before curing<br>Industrial application of<br>coatings and inks by other  | PROC05<br>PROC08b<br>PROC10, PROC13 | None<br>None      | according to EN 166.<br>Use eye protection<br>according to EN 166.<br>Use eye protection<br>according to EN 166. | tested to EN374.<br>Wear suitable gloves<br>tested to EN374.<br>Wear suitable gloves<br>tested to EN374. |  |

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