# **SAFETY DATA SHEET**



Date of issue/Date of revision 13 January 2025 Version 2

| Section 1. Identification                                  |  |  |
|--|--|--|
| Product code   | : 000001200007   |  |
| Product name   | : SIGMASHIELD 420 BASE RED BROWN   |  |
| Other means of identificat<br>00192368                     | ion  |  |
| Product type   | : Liquid.  |  |
| <u>Relevant identified uses or</u><br>Product use          | <ul> <li>f the substance or mixture and uses advised against</li> <li>Coating.</li> <li>Professional applications, Used by spraying, Application by non spray methods</li> </ul> |  |
| Supplier's details   | : PPG Industries (Singapore) Pte. Ltd., No. 1 Tuas Basin Close, Singapore 638803.<br>Tel +65 68653737  |  |
| Emergency telephone<br>number (with hours of<br>operation) | : CHEMTREC +(65)-31581349 (CCN 17704)  |  |

## Section 2. Hazards identification

|  | Classification of the substance or mixture | <ul> <li>AMMABLE LIQUIDS - Category 3<br/>ACUTE TOXICITY (inhalation) - Category 4<br/>SKIN CORROSION/IRRITATION - Category 2<br/>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br/>SKIN SENSITIZATION - Category 1<br/>SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br/>AQUATIC HAZARD (LONG-TERM) - Category 2</li> </ul> |
|--|--|--|
|--|--|--|

| GHS label elements, incluc | ling pre | cautionar         | <u>y statements</u> | 2 |                     |   |
|----------------------------|----------|-------------------|---------------------|---|---------------------|---|
| Hazard pictograms          | :        | $\wedge$          | $\mathbf{\wedge}$   |   |                     |   |
|                            | •        |                   | E Z                 |   | $\langle ! \rangle$ | < |
|                            |          | $\mathbf{\nabla}$ | $\sim$              |   | $\mathbf{\nabla}$   |   |

Signal word

: Danger

## Section 2. Hazards identification

| Hazard statements          | : 🕅 ammable liquid and vapor.  |
|----------------------------|--|
|                            | Causes skin irritation.  |
|                            | May cause an allergic skin reaction.   |
|                            | Causes serious eye damage.   |
|                            | Harmful if inhaled.  |
|                            | May cause damage to organs through prolonged or repeated exposure.<br>Toxic to aquatic life with long lasting effects.   |
| Precautionary statements   |  |
| Prevention                 | : Wear protective gloves. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Do not breathe vapor. Wash thoroughly after handling.  |
| Response                   | : Collect spillage. Get medical advice or attention if you feel unwell. IF INHALED:<br>Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN: Wash with plenty<br>of water. If skin irritation or rash occurs: Get medical advice or attention. Take off<br>contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with<br>water for several minutes. Remove contact lenses, if present and easy to do.<br>Continue rinsing. Immediately call a POISON CENTER or doctor. |
| Storage                    | : Not applicable.  |
| Disposal                   | : Not applicable.  |
| Other hazards which do not | : Causes digestive tract burns. Prolonged or repeated contact may dry skin and   |

### result in classification cause irritation.

## Section 3. Composition/information on ingredients

| Substance/mixture | : | Mixture |
|-------------------|---|---------|
|-------------------|---|---------|

### CAS number/other identifiers

| CAS number: Not applicable.EC number: Mixture.      |          |            |
|---|----------|------------|
| Ingredient name                                     | %        | CAS number |
| s-[4-(2,3-epoxipropoxi)phenyl]propane               | 20 - <25 | 1675-54-3  |
| Talc , not containing asbestiform fibres            | 5 - <10  | 14807-96-6 |
| xylene  | 5 - <10  | 1330-20-7  |
| crystalline silica, respirable powder (<10 microns) | 3 - <5   | 14808-60-7 |
| 4-nonylphenol, branched                             | 1 - <3   | 84852-15-3 |
| 2-methylpropan-1-ol                                 | 1 - <3   | 78-83-1    |
| ethylbenzene  | 1 - <3   | 100-41-4   |
| Phenol, styrenated                                  | 0.3 - <1 | 61788-44-1 |

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 and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

## Section 4. First aid measures

### Description of necessary first aid measures

| Eye contact  | <ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running<br/>water for at least 15 minutes, keeping eyelids open. Seek immediate medical<br/>attention.</li> </ul>                            |
|--------------|--|
| Inhalation   | <ul> <li>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.</li> </ul> |
| 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>   |

| Most important symptoms/    | ects, acute and delayed   |
|-----------------------------|---|
| Potential acute health effe |   |
| Eye contact                 | : Causes serious eye damage.  |
| Inhalation                  | : Harmful if inhaled.   |
| Skin contact                | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.   |
| Ingestion                   | : Corrosive to the digestive tract. Causes burns.   |
| Over-exposure signs/sym     | o <u>ms</u>   |
| Eye contact                 | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
| Inhalation                  | : No specific data.   |
| Skin contact                | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur   |
| Ingestion                   | : Adverse symptoms may include the following: stomach pains   |
| Indication of immediate me  | al attention and special treatment needed, if necessary   |
| Notes to physician          | : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |
| Specific treatments         | : No specific treatment.  |
| 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. |

### See toxicological information (Section 11)

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## Section 5. Fire-fighting measures

| Extinguishing media                            |  |
|--|--|
| Suitable extinguishing media                   | : Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.   |
| Unsuitable extinguishing media                 | : Do not use water jet.  |
| Specific hazards arising from the chemical     | : Mammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is toxic to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>metal oxide/oxides   |
| Special protective actions for fire-fighters   | : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.   |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

| For non-emergency<br>personnel | : No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide<br>adequate ventilation. Wear appropriate respirator when ventilation is inadequate.<br>Put on appropriate personal protective equipment. |
|--------------------------------|--|
| 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".  |
| Environmental precautions      | : Avoid dispersal of spilled 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. Collect spillage.   |
| Methods and materials for co   | 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.   |

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Product name SIGMASHIELD 420 BASE RED BROWN

### Section 6. Accidental release measures

#### Large spill

: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### 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 vapor 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.   |
| Conditions for safe storage,<br>including any<br>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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.   |

## Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

| Ingredient name                        |   | Exposure limits  |  |
|--|---|--|--|
|  |   | Workplace Safety and Health Act<br>(Singapore, 2/2006)   |  |
| xulono.                                |   | PEL (long term) 8 hours: 2 mg/m <sup>3</sup> .<br>Workplace Safety and Health Act  |  |
| xylene                                 |   | (Singapore, 2/2006) [Xylene]   |  |
|  |   | PEL (long term) 8 hours: 100 ppm.  |  |
|  |   | PEL (long term) 8 hours: 434 mg/m <sup>3</sup> .   |  |
|  |   | PEL (short term) 15 minutes: 651 mg/m <sup>3</sup> .   |  |
|  |   | PEL (short term) 15 minutes: 150 ppm.  |  |
| crystalline silica, respirable pow     | vder (<10 microns)  | ACGIH TLV (United States, 7/2023) [Silica,   |  |
|  |   | crystalline] A2.   |  |
|  |   | TWA 8 hours: 0.025 mg/m <sup>3</sup> . Form:   |  |
|  |   | Respirable fraction.   |  |
| 2-methylpropan-1-ol                    |   | Workplace Safety and Health Act  |  |
|  |   | (Singapore, 2/2006)  |  |
|  |   | PEL (long term) 8 hours: 50 ppm.   |  |
| a thu dha a mar a na                   |   | PEL (long term) 8 hours: 152 mg/m <sup>3</sup> .   |  |
| ethylbenzene                           |   | Workplace Safety and Health Act<br>(Singapore, 2/2006)   |  |
|  |   | PEL (long term) 8 hours: 100 ppm.  |  |
|  |   | PEL (long term) 8 hours: 434 mg/m <sup>3</sup> .   |  |
|  |   | PEL (short term) 15 minutes: 543 mg/m <sup>3</sup> .   |  |
|  |   | PEL (short term) 15 minutes: 125 ppm.  |  |
| Recommended monitoring :<br>procedures |   | riate monitoring standards. Reference to hods for the determination of hazardous   |  |
| ontrols                                | contaminants below any recommend  | ols to keep worker exposure to airborne<br>ed or statutory limits. The engineering controls<br>concentrations below any lower explosive  |  |
| nvironmental exposure :<br>ontrols     | : Emissions from ventilation or work process equipment should be checked to ensure<br>they comply with the requirements of environmental protection legislation. In some<br>cases, fume scrubbers, filters or engineering modifications to the process<br>equipment will be necessary to reduce emissions to acceptable levels. |  |  |
| ndividual protection measures          |   |  |  |
| Hygiene measures :                     | eating, smoking and using the lavator<br>Appropriate techniques should be use<br>Contaminated work clothing should n  | oughly after handling chemical products, before<br>ry and at the end of the working period.<br>ed to remove potentially contaminated clothing.<br>ot be allowed out of the workplace. Wash<br>. Ensure that eyewash stations and safety<br>location. |  |

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## Section 8. Exposure controls/personal protection

| Eye/face protection    | : Chemical splash goggles and face shield.  |   |
|------------------------|---|---|
| Skin protection        |   |   |
| Hand protection        | : Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. | ; |
| Gloves                 | : butyl rubber  |   |
| Body protection        | : 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.   |   |
| 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.  | 3 |

## Section 9. Physical and chemical properties

| <u>Appearance</u>         |                        |  |  |
|---------------------------|------------------------|--|--|
| Physical state            | Liquid.                |  |  |
| Color                     | wnish-red.             |  |  |
| Odor                      | matic.                 |  |  |
| рН                        | bluble in water.       |  |  |
| Boiling point             | 7.78°C (>100°F)        |  |  |
| Flash point               | sed cup: 33°C (91.4°F) |  |  |
| Evaporation rate          | available.             |  |  |
| Flammability (solid, gas) | id                     |  |  |
| Vapor pressure            | available.             |  |  |
| Vapor density             |                        |  |  |
| Relative density          | 5                      |  |  |
| Solubility/ico)           | dia Result             |  |  |
| Solubility(ies)           | d water Not soluble    |  |  |
| Auto-ignition temperature | available.             |  |  |

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### **Section 9. Physical and chemical properties**

#### Viscosity

: Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)

## Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredi                                       | ents. |
|------------------------------------|---|-------|
| Chemical stability                 | The product is stable.  |       |
| Possibility of hazardous reactions | Under normal conditions of storage and use, hazardous reactions will not occu   | ır.   |
| Conditions to avoid                | : When exposed to high temperatures may produce hazardous decomposition products.   |       |
| Incompatible materials             | Keep away from the following materials to prevent strong exothermic reactions oxidizing agents, strong alkalis, strong acids. | S:    |
| Hazardous decomposition products   | Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides         |       |

## Section 11. Toxicological information

### Information on toxicological effects

### Acute toxicity

| Product/ingredient name   | Result                | Species | Dose        | Exposure |
|---------------------------|-----------------------|---------|-------------|----------|
| bis-[4-(2,3-epoxipropoxi) | LD50 Dermal           | Rabbit  | 23000 mg/kg | -        |
| phenyl]propane            |                       |         |             |          |
|                           | LD50 Oral             | Rat     | 15000 mg/kg | -        |
| xylene                    | LD50 Dermal           | Rabbit  | 1.7 g/kg    | -        |
|                           | LD50 Oral             | Rat     | 4.3 g/kg    | -        |
| 4-nonylphenol, branched   | LD50 Dermal           | Rabbit  | 2.14 g/kg   | -        |
|                           | LD50 Oral             | Rat     | 1300 mg/kg  | -        |
| 2-methylpropan-1-ol       | LC50 Inhalation Vapor | Rat     | 24.6 mg/l   | 4 hours  |
|                           | LD50 Dermal           | Rabbit  | 2460 mg/kg  | -        |
|                           | LD50 Oral             | Rat     | 2830 mg/kg  | -        |
| ethylbenzene              | LC50 Inhalation Vapor | Rat     | 17.8 mg/l   | 4 hours  |
| -                         | LD50 Dermal           | Rabbit  | 17.8 g/kg   | -        |
|                           | LD50 Oral             | Rat     | 3.5 g/kg    | -        |
| Phenol, styrenated        | LD50 Dermal           | Rabbit  | >5010 mg/kg | -        |
| -                         | LD50 Oral             | Rat     | 3550 mg/kg  | -        |

### Irritation/Corrosion

irritation

Narcotic effects

Section 11. Toxicological information

| Product/ingredient name                     | Result                         |             | Species        | Scor       | e E                  | xposure     | Observatior              |
|---|--------------------------------|-------------|----------------|------------|----------------------|-------------|--------------------------|
| ቓis-[4-(2,3-epoxipropoxi)<br>phenyl]propane | Eyes - Mild irrita             | nt          | Rabbit         | -          | 24                   | 4 hours     | -                        |
| ·   | Eyes - Redness<br>conjunctivae | of the      | Rabbit         | 0.4        | 24                   | 4 hours     | -                        |
|   | Skin - Edema                   |             | Rabbit         | 0.5        | 4                    | hours       | -                        |
|   | Skin - Erythema                | /Eschar     | Rabbit         | 0.8        | 4                    | hours       | -                        |
|   | Skin - Mild irritar            |             | Rabbit         | -          | 4                    | hours       | -                        |
| xylene                                      | Skin - Moderate                | irritant    | Rabbit         | -          |                      | 4 hours 500 | -                        |
| 4-nonylphenol, branched                     | Skin - Erythema                | /Eschar     | Rabbit         | 4          |                      | ıg          | -                        |
| Conclusion/Summary                          |                                |             |                |            |                      |             |                          |
| Skin :                                      | There are no data              | a available | on the mixture | e itself.  |                      |             |                          |
| Eyes :                                      | There are no data              | a available | on the mixture | e itself.  |                      |             |                          |
| Respiratory :                               | There are no data              | a available | on the mixture | e itself.  |                      |             |                          |
| Sensitization                               |                                |             |                |            |                      |             |                          |
| Product/ingredient name                     | Route of                       | Species     | S              |            | Result               |             |                          |
| -   | exposure                       |             |                |            |                      |             |                          |
| bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane | skin                           | skin Mouse  |                |            | Sensitizing          |             |                          |
| Phenol, styrenated                          | skin                           | skin Mouse  |                |            | Sensitizing          |             |                          |
| Conclusion/Summary                          |                                |             |                |            |                      |             |                          |
| Skin :                                      | There are no data              | a available | on the mixtur  | e itself.  |                      |             |                          |
| Respiratory :                               | There are no data              | a available | on the mixture | e itself.  |                      |             |                          |
| lutagenicity                                |                                |             |                |            |                      |             |                          |
| Conclusion/Summary :                        | There are no data              | a available | on the mixtu   | re itself. |                      |             |                          |
| arcinogenicity                              |                                |             |                |            |                      |             |                          |
| Conclusion/Summary :                        | There are no data              | a available | on the mixtu   | re itself. |                      |             |                          |
| Reproductive toxicity                       |                                |             |                |            |                      |             |                          |
| Conclusion/Summary :                        | There are no dat               | a available | on the mixtu   | re itself. |                      |             |                          |
| eratogenicity                               |                                |             |                |            |                      |             |                          |
|   | There are no dat               | a available | on the mixtu   | re itself. |                      |             |                          |
| Specific target organ toxicit               |                                |             |                |            |                      |             |                          |
| Name  |                                |             | Category       |            | Route of<br>exposure |             | get organs               |
| Talc , not containing asbesti               | form fibres                    |             | Category 3     | 3 -        |                      |             | spiratory tract<br>ation |
| xylene                                      |                                |             | Category 3     | 3 -        |                      | Res         | spiratory tract          |
| 2-methylpropan-1-ol                         |                                |             | Category 3     | - 3        |                      |             | spiratory tract          |

Specific target organ toxicity (repeated exposure)

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Category 3

## Section 11. Toxicological information

| Name  | Category   | Route of exposure | Target organs  |
|---|------------|-------------------|----------------|
| crystalline silica, respirable powder (<10 microns) | Category 1 | inhalation        | -              |
| ethylbenzene  | Category 2 | -                 | hearing organs |

### Aspiration hazard

| Name         | Result                         |
|--------------|--------------------------------|
| xylene       | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |

| Information on the likely routes of exposure | : Not available.  |
|--|---|
| Potential acute health effect                | <u>'S</u>   |
| Eye contact                                  | : Causes serious eye damage.  |
| Inhalation                                   | : Harmful if inhaled.   |
| Skin contact                                 | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.   |
| Ingestion                                    | : Corrosive to the digestive tract. Causes burns.   |
| Symptoms related to the ph                   | ysical, chemical and toxicological characteristics  |
| Eye contact                                  | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
| Inhalation                                   | : No specific data.   |
| Skin contact                                 | : Adverse symptoms may include the following:<br>pain or irritation<br>redness<br>dryness<br>cracking<br>blistering may occur |
| Ingestion                                    | : Adverse symptoms may include the following: stomach pains   |
| Delayed and immediate effe                   | cts and also chronic effects from short and long term exposure  |
| Short term exposure                          |   |
| Potential immediate<br>effects               | : Not available.  |
| Potential delayed effects                    | : Not available.  |
| Long term exposure                           |   |
| Potential immediate<br>effects               | : Not available.  |
| Potential delayed effects                    | : Not available.  |

Potential chronic health effects

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## Section 11. Toxicological information

| General               | : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
|-----------------------|---|
| 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.   |

### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value      |
|------------------------------|----------------|
| Øral                         | 49468.25 mg/kg |
| Dermal                       | 8273.86 mg/kg  |
| Inhalation (vapors)          | 24.07 mg/l     |
| Inhalation (dusts and mists) | 3.09 mg/l      |

### Other information

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

## Section 12. Ecological information

### **Toxicity**

| Product/ingredient name | Result                               | Species                        | Exposure |
|-------------------------|--------------------------------------|--------------------------------|----------|
| s-[4-(2,3-epoxipropoxi) | Acute LC50 1.8 mg/l Fresh water      | Daphnia - <i>daphnia magna</i> | 48 hours |
|                         | Chronic NOEC 0.3 mg/l                | Daphnia                        | 21 days  |
| 4-nonylphenol, branched | Acute EC50 0.044 mg/l                | Crustaceans - Moina macrocopa  | 48 hours |
|                         | Acute LC50 0.221 mg/l                | Fish                           | 96 hours |
| 2-methylpropan-1-ol     | Acute EC50 1100 mg/l                 | Daphnia                        | 48 hours |
| ethylbenzene            | Acute EC50 1.8 mg/l Fresh water      | Daphnia                        | 48 hours |
|                         | Chronic NOEC 1 mg/l Fresh water      | Daphnia - Ceriodaphnia dubia   | -        |
| Phenol, styrenated      | Acute EC50 3.8 mg/l                  | Daphnia                        | 48 hours |
| Conclusion/Summary      | : There are no data available on the | mixture itself.                | •        |

### Persistence/degradability

| Product/ingredient name   | Test           | Result  | Dose | Inoculum |
|---|----------------|---|------|----------|
| ethylbenzene<br>Phenol, styrenated                                      | -<br>OECD 301F | 79 % - Readily - 10 days<br>7 % - Not readily - 28 days | -    | -        |
| Conclusion/Summary : There are no data available on the mixture itself. |                |   |      |          |

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|-----------|--------------|-------------|
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## Section 12. Ecological information

|                         | 0                 |            |                    |
|-------------------------|-------------------|------------|--------------------|
| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability   |
| s-[4-(2,3-epoxipropoxi) | -                 | -          | Not readily        |
| xylene<br>ethylbenzene  | -                 | -          | Readily<br>Readily |
| Phenol, styrenated      | -                 | -          | Not readily        |

### **Bioaccumulative potential**

| Product/ingredient name | LogPow | BCF         | Potential |
|-------------------------|--------|-------------|-----------|
| xylene                  | 3.12   | 7.4 to 18.5 | Low       |
| 4-nonylphenol, branched | 5.4    | 251.19      | Low       |
| 2-methylpropan-1-ol     | 1      | -           | Low       |
| ethylbenzene            | 3.6    | 79.43       | Low       |

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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

### Section 14. Transport information

|                               | UN   | IMDG  | ΙΑΤΑ   |
|-------------------------------|--|---|--|
| UN number                     | UN1263   | UN1263  | UN1263   |
| UN proper<br>shipping name    | PAINT  | PAINT   | PAINT  |
| Transport hazard<br>class(es) | 3  | 3   | 3  |
| Packing group                 | III  | III   | =  |
| Environmental<br>hazards      | Yes. The environmentally<br>hazardous substance mark is<br>not required. | Yes.  | Yes. The environmentally<br>hazardous substance mark is<br>not required. |
| Marine pollutant substances   | Not applicable.  | (bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane) | Not applicable.  |

### Additional information

| UN   | : None identified.   |
|------|--|
| IMDG | : The marine pollutant mark is not required when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ . |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations.           |

Special precautions for user : 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.

## Transport in bulk according : Not applicable. to IMO instruments

## Section 15. Regulatory information

### Singapore - hazardous chemicals under government control

| Ingredient name                         | Status |
|---|--------|
| Fonylphenol and nonylphenol ethoxylates | Listed |

### International regulations

Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Section 16. Other information

| <u>History</u>                 |  |
|--------------------------------|--|
| Date of issue/Date of revision | : 13 January 2025  |
| Date of previous issue         | : 4/4/2024   |
| Version                        | : 2  |
| Prepared by                    | : EHS  |
| Key to abbreviations           | <ul> <li>ATE = Acute Toxicity Estimate<br/>BCF = Bioconcentration Factor<br/>GHS = Globally Harmonized System of Classification and Labelling of Chemicals<br/>IATA = International Air Transport Association<br/>IBC = Internediate Bulk Container<br/>IMDG = International Maritime Dangerous Goods<br/>LogPow = logarithm of the octanol/water partition coefficient<br/>MARPOL = International Convention for the Prevention of Pollution From Ships,<br/>1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)<br/>UN = United Nations</li> </ul> |

✓ Indicates information that has changed from previously issued version.

### Notice to reader

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 PPG, 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.