# **SAFETY DATA SHEET**



Date of issue/Date of revision11 October 2024Version 7.01

| Section 1. Identification                                  |   |  |
|--|---|--|
| Product code   | : 00202320  |  |
| Product name   | : SIGMACOVER 435 BASE GREEN 9441  |  |
| Product type   | : Liquid.   |  |
| Relevant identified uses o                                 | f the substance or mixture and uses advised against   |  |
| Product use  | Coating.<br>Professional applications, Used by spraying.  |  |
| 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 | : FLAMMABLE LIQUIDS - Category 3<br>SKIN CORROSION/IRRITATION - Category 2<br>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1<br>SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract<br>irritation) - Category 3 |
|--|--|
|  | irritation) - Category 3   |

**GHS label elements, including precautionary statements** 

2

Hazard pictograms

| Signal word              | : Warning   |  |
|--------------------------|---|--|
| Hazard statements        | <ul> <li>Flammable liquid and vapor.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause respiratory irritation.</li> </ul> |  |
| 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 breathing vapor. Wash thoroughly after handling.      |  |

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# Section 2. Hazards identification

| Response                   | : FINHALED: Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN:<br>Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or<br>attention. Take off contaminated clothing and wash it before reuse. IF IN EYES:<br>Rinse cautiously with water for several minutes. Remove contact lenses, if present<br>and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or<br>attention. |  |
|----------------------------|---|--|
| Storage                    | : Store in a well-ventilated place. Keep container tightly closed.  |  |
| Disposal                   | : Not applicable.   |  |
| Other hazards which do not | Prolonged or repeated contact may dry skin and cause irritation   |  |

result in classification

Other hazards which do not : Prolonged or repeated contact may dry skin and 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  |
|--|------------|-------------|
| Epoxy Resin  | 20 - <25   | SUB110652   |
| Talc , not containing asbestiform fibres                               | 10 - <20   | 14807-96-6  |
| xylene   | 10 - <20   | 1330-20-7   |
| Epoxy resin (MW $\leq$ 700)  | 5 - <10    | 25068-38-6  |
| ethylbenzene   | 1 - <3     | 100-41-4    |
| 2-methylpropan-1-ol  | 1 - <3     | 78-83-1     |
| 1-methoxy-2-propanol   | 1 - <3     | 107-98-2    |
| Octadecanamide, N,N'-1,6-hexanediylbis[12-hydroxy-                     | 0.3 - <1   | 55349-01-4  |
| Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine | 0.1 - <0.3 | 100545-48-0 |
|  |            |             |

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>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   | <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 | : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.   |
| Ingestion    | : If swallowed, seek medical advice immediately and show this container or label.<br>Keep person warm and at rest. Do NOT induce vomiting.   |

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# Section 4. First aid measures

| Most important symptoms/e     | ffe        | cts, acute and delayed  |
|-------------------------------|------------|---|
| Potential acute health effect | <u>:ts</u> |   |
| Eye contact                   | :          | Causes serious eye irritation.  |
| Inhalation                    | :          | May cause respiratory irritation.   |
| Skin contact                  | :          | Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.   |
| Ingestion                     | :          | No known significant effects or critical hazards.   |
| Over-exposure signs/symp      | ton        | <u>15</u>   |
| Eye contact                   | :          | Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness  |
| Inhalation                    | :          | Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing   |
| Skin contact                  | :          | Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| Ingestion                     | 1          | No specific data.   |
|                               |            | I 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)

# 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 | : Flammable 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. |

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# Section 5. Fire-fighting measures

| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>halogenated compounds<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. Avoid breathing vapor or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. 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".   |
|                                |     | 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).   |
| Methods and materials for co   | ont | <u>ainment and cleaning up</u>  |
| Small spill                    | :   | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| Large spill                    | :   | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 ingest. Avoid breathing vapor or mist. 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  |
|--|--|
| ralc , not containing asbestiform fibres | Workplace Safety and Health Act (Singapore, 2/2006)                            |
| xylene                                   | PEL (long term) 8 hours: 2 mg/m <sup>3</sup> . Workplace Safety and Health Act |
| Aylene                                   | (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.  |
| ethylbenzene                             | Workplace Safety and Health Act  |
|  | (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> .                           |

# Section 8. Exposure controls/personal protection

|   |   |    | I I   |   |  |  |
|---|---|----|---|---|--|--|
|   | 2-methylpropan-1-ol<br>1-methoxy-2-propanol |    |   | PEL (short term) 15 minutes: 125 ppm.<br>Workplace Safety and Health Act<br>(Singapore, 2/2006)<br>PEL (long term) 8 hours: 50 ppm.<br>PEL (long term) 8 hours: 152 mg/m <sup>3</sup> .<br>Workplace Safety and Health Act<br>(Singapore, 2/2006) [Propylene glycol<br>monomethyl ether]<br>PEL (long term) 8 hours: 100 ppm.<br>PEL (long term) 8 hours: 369 mg/m <sup>3</sup> .<br>PEL (short term) 15 minutes: 553 mg/m <sup>3</sup> . |  |  |
|   |   |    |   | PEL (short term) 15 minutes: 150 ppm.   |  |  |
|   | Recommended monitoring procedures           | :  |   | riate monitoring standards. Reference to nods for the determination of hazardous  |  |  |
|   | oppropriate engineering<br>ontrols          | :  | contaminants below any recommende   | Is to keep worker exposure to airborne<br>ed or statutory limits. The engineering controls<br>concentrations below any lower explosive  |  |  |
|   | invironmental 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. |   |  |  |
| h | ndividual protection measur                 | es |   |   |  |  |
|   | Hygiene measures                            |    | Wash hands, forearms and face thoro<br>eating, smoking and using the lavatory<br>Appropriate techniques should be use<br>Contaminated work clothing should no   | bughly after handling chemical products, before<br>y and at the end of the working period.<br>to remove potentially contaminated clothing.<br>to be allowed out of the workplace. Wash<br>Ensure that eyewash stations and safety<br>ocation.   |  |  |
|   | Eye/face protection                         |    | Chemical splash goggles.  |   |  |  |
|   | Skin protection                             | -  |   |   |  |  |
|   | Hand protection                             | :  | be worn at all times when handling che<br>this is necessary. Considering the par<br>check during use that the gloves are s<br>should be noted that the time to break  | rers. In the case of mixtures, consisting of  |  |  |
|   | Gloves                                      | :  | butyl rubber  |   |  |  |
|   |   |    |   |   |  |  |

# Section 8. Exposure controls/personal protection

| -                      |  |
|------------------------|--|
| 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  | <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 | : 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. |

# Section 9. Physical and chemical properties

| <u>Appearance</u>         |   |  |
|---------------------------|---|--|
| Physical state            | Liquid.   |  |
| Color                     | Green.  |  |
| Odor                      | Aromatic.   |  |
| рН                        | insoluble in water.   |  |
| Boiling point             | >37.78°C (>100°F)   |  |
| Flash point               | Closed cup: 29°C (84.2°F)   |  |
| Evaporation rate          | Not available.  |  |
| Flammability (solid, gas) | liquid  |  |
| Vapor pressure            | Not available.  |  |
| Vapor density             |   |  |
| Relative density          | 1.57  |  |
| Solubility(ies)           | Media Result  |  |
| Solubility (165)          | cold water Not soluble  |  |
| Auto-ignition temperature | Not available.  |  |
| Viscosity                 | Øynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) |  |

# Section 10. Stability and reactivity

| Reactivity                         | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability                 | : The product is stable.   |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur.            |

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# Section 10. Stability and reactivity

| 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.              |
| Hazardous decomposition products | : | Depending on conditions, decomposition products may include the following materials: carbon oxides halogenated compounds metal oxide/oxides |

# Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name   | Result                          | Species | Dose        | Exposure |
|---|---------------------------------|---------|-------------|----------|
| xylene  | LD50 Dermal                     | Rabbit  | 1.7 g/kg    | -        |
|   | LD50 Oral                       | Rat     | 4.3 g/kg    | -        |
| Epoxy resin (MW $\leq$ 700)   | LD50 Dermal                     | Rabbit  | >2 g/kg     | -        |
|   | LD50 Oral                       | Rat     | >2 g/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    | -        |
| 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  | -        |
| 1-methoxy-2-propanol  | LC50 Inhalation Vapor           | Rat     | >7000 ppm   | 6 hours  |
|   | LD50 Dermal                     | Rabbit  | 13 g/kg     | -        |
|   | LD50 Oral                       | Rat     | 5.2 g/kg    | -        |
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | LC50 Inhalation Dusts and mists | Rat     | 5.05 mg/l   | 4 hours  |
| ,   | LD50 Oral                       | Rat     | >2000 mg/kg | -        |

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

#### Irritation/Corrosion

| Product/ingredient name | Result                                       | Species          | Score | Exposure           | Observation |
|-------------------------|--|------------------|-------|--------------------|-------------|
| xylene                  | Skin - Moderate irritant                     | Rabbit           | -     | 24 hours 500<br>mg | -           |
| Epoxy resin (MW  ≤ 700) | Eyes - Mild irritant<br>Skin - Mild irritant | Rabbit<br>Rabbit | -     | -                  | -           |

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

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#### Product code 00202320 Product name SIGMACOVER 435 BASE GREEN 9441

# Section 11. Toxicological information

|   | •                 |                                  |                            |
|---|-------------------|----------------------------------|----------------------------|
| Product/ingredient name   | Route of exposure | Species                          | Result                     |
| Epoxy resin (MW ≤ 700)<br>Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | skin<br>skin      | Mouse<br>Guinea pig              | Sensitizing<br>Sensitizing |
| Conclusion/Summary  |                   |                                  |                            |
| Skin :  | There are no data | available on the mixture itself. |                            |
| Respiratory :   | There are no data | available on the mixture itself. |                            |
| Mutagenicity  |                   |                                  |                            |
| Conclusion/Summary :  | There are no data | available on the mixture itself. |                            |
| <b>Carcinogenicity</b>  |                   |                                  |                            |
| Conclusion/Summary :  | There are no data | available on the mixture itself. |                            |
| Reproductive toxicity   |                   |                                  |                            |
| Conclusion/Summary :  | There are no data | available on the mixture itself. |                            |
| Teratogenicity  |                   |                                  |                            |
| Conclusion/Summary :  | There are no data | available on the mixture itself. |                            |

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

| Name                                     | Category                 | Route of exposure | Target organs                        |
|--|--------------------------|-------------------|--------------------------------------|
| √alc , not containing asbestiform fibres | Category 3               | -                 | Respiratory tract<br>irritation      |
| xylene                                   | Category 3               | -                 | Respiratory tract<br>irritation      |
| 2-methylpropan-1-ol                      | Category 3               | -                 | Respiratory tract<br>irritation      |
| 1-methoxy-2-propanol                     | Category 3<br>Category 3 | -                 | Narcotic effects<br>Narcotic effects |

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

| Name         |            | Route of<br>exposure | Target organs  |
|--------------|------------|----------------------|----------------|
| ethylbenzene | Category 2 | -                    | hearing organs |

#### Aspiration hazard

| Name | Result   |
|------|--|
|      | ASPIRATION HAZARD - Category 1<br>ASPIRATION HAZARD - Category 1 |

#### Information on the likely : Not available. routes of exposure

#### Potential acute health effects

### Section 11. Toxicological information

| Eye contact  | : Causes serious eye irritation.  |
|--------------|---|
| Inhalation   | : May cause respiratory irritation.   |
| Skin contact | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion    | : No known significant effects or critical hazards.                                   |

#### Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact  | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness    |
|--------------|---|
| Inhalation   | : Adverse symptoms may include the following: respiratory tract irritation coughing           |
| Skin contact | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking |
| Ingestion    | : No specific data.   |

#### Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure **Potential immediate** : Not available. effects Potential delayed effects : Not available. Long term exposure **Potential immediate** : Not available. effects **Potential delayed effects** : Not available. Potential chronic health effects General : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/ or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. **Mutagenicity** : No known significant effects or critical hazards. **Reproductive toxicity** : No known significant effects or critical hazards.

#### Numerical measures of toxicity

#### Acute toxicity estimates

| Route | ATE value                                |
|-------|--|
|       | 4095.83 mg/kg<br>41.09 mg/l<br>5.28 mg/l |

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# Section 11. Toxicological information

#### **Other information**

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             |
|---|--|---|----------------------|
| Epoxy resin (MW ≤ 700)  | Acute LC50 1.8 mg/l                        | Daphnia   | 48 hours             |
|   | Chronic NOEC 0.3 mg/l                      | Daphnia   | 21 days              |
| ethylbenzene  | Acute EC50 1.8 mg/l Fresh water            | Daphnia   | 48 hours             |
| -   | Chronic NOEC 1 mg/l Fresh water            | Daphnia - Ceriodaphnia dubia  | -                    |
| 2-methylpropan-1-ol   | Acute EC50 1100 mg/l                       | Daphnia   | 48 hours             |
| 1-methoxy-2-propanol  | Acute LC50 23300 mg/l                      | Daphnia   | 48 hours             |
|   | Acute LC50 >4500 mg/l Fresh water          | Fish  | 96 hours             |
| Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | Acute EC50 >100 mg/l                       | Algae - Pseudokirchneriella<br>subcapitata                          | 72 hours             |
| -   | Acute EC50 >10 mg/l<br>Acute LC50 >10 mg/l | Daphnia - <i>Daphnia magna</i><br>Fish - <i>Oncorhynchus mykiss</i> | 48 hours<br>96 hours |

: There are no data available on the mixture itself.

#### Persistence/degradability

| Product/ingredient name   | Test  | Result  | Dose | Inoculum |
|---|---|---|------|----------|
| Epoxy resin (MW ≤ 700)<br>ethylbenzene<br>Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | OECD 301F<br>-<br>301D Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 5 % - 28 days<br>79 % - Readily - 10 days<br>22 % - 28 days |      |          |

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

| Product/ingredient name   | Aquatic half-life | Photolysis  | Biodegradability                              |
|---|-------------------|-------------|---|
| xylene<br>Epoxy resin (MW ≤ 700)<br>ethylbenzene<br>Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | -<br>-<br>-       | -<br>-<br>- | Readily<br>Not readily<br>Readily<br>Inherent |

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# Section 12. Ecological information

#### **Bioaccumulative potential**

| Product/ingredient name  | LogPow                               | BCF                                  | Potential                               |
|--|--------------------------------------|--------------------------------------|---|
| xylene<br>Epoxy resin (MW ≤ 700)<br>ethylbenzene<br>2-methylpropan-1-ol<br>1-methoxy-2-propanol<br>Octadecanoic acid,<br>12-hydroxy-, reaction<br>products with<br>ethylenediamine | 3.12<br>3<br>3.6<br>1<br><1<br>>5.86 | 7.4 to 18.5<br>31<br>79.43<br>-<br>- | Low<br>Low<br>Low<br>Low<br>Low<br>High |

#### Mobility in soil

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

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

|                            | UN     | IMDG   | ΙΑΤΑ       |
|----------------------------|--------|--------|------------|
| UN number                  | UN1263 | UN1263 | UN1263     |
| UN proper<br>shipping name | PAINT  | PAINT  | PAINT      |
| Transport hazard class(es) | 3      | 3      | 3          |
| Packing group              | III    |        |            |
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# Section 14. Transport information

| Environmental<br>hazards    | No.             | No.             | No.             |
|-----------------------------|-----------------|-----------------|-----------------|
| Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

#### **Additional information**

| UN   | : None identified. |
|------|--------------------|
| IMDG | : None identified. |
| IATA | : None identified. |

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 - haza | ardous chemica | ls under govern | iment control |
|------------------|----------------|-----------------|---------------|
|                  |                |                 |               |

None.

International regulations Montreal Protocol

Not listed.

111.4.4

Stockholm Convention on Persistent Organic Pollutants Not listed.

## Section 16. Other information

| <u>History</u>                 |  |
|--------------------------------|--|
| Date of issue/Date of revision | : 11 October 2024  |
| Date of previous issue         | : 3/14/2024  |
| Version                        | : 7.01   |
| Prepared by                    | : EHS  |
| Key to abbreviations           | : 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 = International Air Transport Association<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) |

| Singapore E | inglish (US) |
|-------------|--------------|
|-------------|--------------|

# Section 16. Other information

UN = United Nations

#### 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.