# **SAFETY DATA SHEET**



Date of issue/Date of revision22 September 2022Version 2

| Section 1. Identification   |   |  |  |
|---|---|--|--|
| Product code  | : 00445431  |  |  |
| Product name  | : SIGMATHERM 500  |  |  |
| Product type  | : Liquid.   |  |  |
| Relevant identified uses of 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 | : AMMABLE LIQUIDS - Category 3   |
|-----------------------|--|
| substance or mixture  | ACUTE TOXICITY (inhalation) - Category 4   |
|                       | SKIN CORROSION/IRRITATION - Category 2   |
|                       | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A  |
|                       | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract  |
|                       | irritation) - Category 3   |
|                       | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects) -  |
|                       | Category 3   |
|                       | SPEČIFÍC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2<br>LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |

**GHS label elements, including precautionary statements** 

Hazard pictograms

Signal word



## Section 2. Hazards identification

| Hazard statements          | : | Ammable liquid and vapour.<br>Causes skin irritation.<br>Causes serious eye irritation.   |
|----------------------------|---|---|
|                            |   | Harmful if inhaled.<br>May cause respiratory irritation.<br>May cause drowsiness or dizziness.  |
|                            |   | May cause damage to organs through prolonged or repeated exposure. (central nervous system (CNS))<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. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid release to the environment. Do not breathe vapour. Wash thoroughly after handling.   |
| Response                   | : | Collect spillage. Get medical advice/attention if you feel unwell. IF INHALED: Call a POISON CENTER or doctor if you feel unwell. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| Storage                    | : | Store in a well-ventilated place. Keep container tightly closed. Keep cool.   |
| Disposal                   | : | Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Other hazards which do not | : | Prolonged or repeated contact may dry skin and cause irritation.  |

result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

#### **CAS number/other identifiers**

| CAS number | : Not applicable. |
|------------|-------------------|
| EC number  | : Mixture.        |

| Ingredient name                              | %          | CAS number |
|--|------------|------------|
| xylene                                       | 20 - <25   | 1330-20-7  |
| Solvent naphtha (petroleum), heavy arom.     | 10 - <20   | 64742-94-5 |
| Solvent naphtha (petroleum), light aromatic  | 5 - <10    | 64742-95-6 |
| ethylbenzene                                 | 3 - <5     | 100-41-4   |
| Naphtha (petroleum), hydrodesulfurized heavy | 3 - <5     | 64742-82-1 |
| 1,2,4-trimethylbenzene                       | 3 - <5     | 95-63-6    |
| toluene                                      | 0.1 - <0.3 | 108-88-3   |

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.

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### Section 3. Composition/information on ingredients

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

#### Most important symptoms/effects, acute and delayed

| Potential acute health | <u>effects</u>  |
|------------------------|---|
| Eye contact            | : Causes serious eye irritation.  |
| Inhalation             | <ul> <li>         Farmful if inhaled. Can cause central nervous system (CNS) depression. May<br/>cause drowsiness or dizziness. May cause respiratory irritation.     </li> </ul>         |
| Skin contact           | : Causes skin irritation. Defatting to the skin.  |
| Ingestion              | : 🗹 an cause central nervous system (CNS) depression.   |
| Over-exposure signs/   | <u>symptoms</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<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact           | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| Ingestion              | : No specific data.   |
|                        |   |
| ndication of immediate | e medical attention and special treatment needed, if necessary  |
| Notes to physician     | <ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large<br/>quantities have been ingested or inhaled.</li> </ul>   |

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### Section 4. First aid measures

| 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. |

See toxicological information (Section 11)

| Section 5. Firefighting 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 vapour. 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<br>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<br>equipment for fire-fighters | <ul> <li>Fire-fighters should wear appropriate protective equipment and self-contained<br/>breathing apparatus (SCBA) with a full face-piece operated in positive pressure<br/>mode.</li> </ul>   |  |  |

### 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 spilt material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapour or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|---|--|
| For emergency responders       | : | If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |

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### Section 6. Accidental release measures

| Environmental precautions    | Kvoid dispersal of spilt material and runoff and contact with soil, waterways, drains |  |  |  |
|------------------------------|---|--|--|--|
|                              | and sewers. Inform the relevant authorities if the product has caused environmental   |  |  |  |
|                              | pollution (sewers, waterways, soil or air). Water polluting material. May be harmful  |  |  |  |
|                              | to the environment if released in large quantities. Collect spillage.                 |  |  |  |
|                              |   |  |  |  |
| Methods and material for con | ainment and cleaning up   |  |  |  |

| methous and materia | rior containment and cleaning up   |
|---------------------|--|
| Small spill         | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.   |
| Large spill         | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

### Section 7. Handling and storage

#### Precautions for safe handling

| Protective measures                    | : Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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. |
|--|--|
|  | Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.   |
| 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.  |

### Section 7. Handling and storage

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

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

| Ingredient name  | Exposure limits   |
|--|---|
| vylene   | Workplace Safety and Health Act<br>(Singapore, 2/2006). [Xylene]<br>PEL (short term): 651 mg/m <sup>3</sup> 15 minutes.<br>PEL (short term): 150 ppm 15 minutes.<br>PEL (long term): 434 mg/m <sup>3</sup> 8 hours.<br>PEL (long term): 100 ppm 8 hours.  |
| ethylbenzene   | Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (short term): 543 mg/m <sup>3</sup> 15 minutes.<br>PEL (short term): 125 ppm 15 minutes.<br>PEL (long term): 434 mg/m <sup>3</sup> 8 hours.<br>PEL (long term): 100 ppm 8 hours.   |
| 1,2,4-trimethylbenzene   | Workplace Safety and Health Act<br>(Singapore, 2/2006). [Trimethyl benzene]<br>PEL (long term): 123 mg/m <sup>3</sup> 8 hours.<br>PEL (long term): 25 ppm 8 hours.  |
| toluene  | Workplace Safety and Health Act<br>(Singapore, 2/2006).<br>PEL (long term): 188 mg/m <sup>3</sup> 8 hours.<br>PEL (long term): 50 ppm 8 hours.  |
| procedures atmosphere o<br>of the ventilati<br>protective equ<br>standards. Re | contains ingredients with exposure limits, personal, workplace<br>r biological monitoring may be required to determine the effectiveness<br>on or other control measures and/or the necessity to use respiratory<br>ipment. Reference should be made to appropriate monitoring<br>eference to national guidance documents for methods for the<br>of hazardous substances will also be required. |
| Appropriate engineering : Use only with  | adequate ventilation. Use process enclosures, local exhaust   |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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# Section 8. Exposure controls/personal protection

| Environmental exposure<br>controls | :          | 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.   |
|------------------------------------|------------|---|
| Individual protection measu        | <u>res</u> |   |
| Hygiene measures                   | :          | Wash hands, forearms and face thoroughly after handling chemical products, before<br>eating, smoking and using the lavatory and at the end of the working period.<br>Appropriate techniques should be used to remove potentially contaminated clothing.<br>Wash contaminated clothing before reusing. Ensure that eyewash stations and<br>safety showers are close to the workstation location.   |
| Eye/face protection                | :          | Chemical splash goggles.  |
| 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                             | :          | For prolonged or repeated handling, use the following type of gloves:   |
|                                    |            | May be used: nitrile rubber<br>Recommended: polyvinyl alcohol (PVA), Viton®   |
| 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.  |

| <u>Appearance</u>         |   |     |  |
|---------------------------|---|-----|--|
| Physical state            | Liquid.   |     |  |
| Odour                     | Characteristic.   |     |  |
| рН                        | insoluble in water.   |     |  |
| Boiling point             | >37.78°C (>100°F)   |     |  |
| Flash point               | Closed cup: 35°C (95°F)   |     |  |
| Evaporation rate          | ighest known value: 0.84 (ethylbenzene) Weighted average: 0.78compared with utyl acetate                                |     |  |
| Flammability (solid, gas) | iquid   |     |  |
| Vapour pressure           | líghest known value: 1.2 kPa (9.3 mm Hg) (at 20°C) (ethylbenzene).  Weighted<br>verage: 0.62 kPa (4.65 mm Hg) (at 20°C) |     |  |
| Vapour density            | Highest known value: 4.1 (Air = 1) (1,2,4-trimethylbenzene). Weighted average: 3.74 (Air = 1)                           |     |  |
| Relative density          | 1.05  |     |  |
| Colubility/ico)           | Media Result  |     |  |
| Solubility(ies)           | vold water Not soluble  |     |  |
| Auto-ignition temperature | west known value: 220 to 250°C (428 to 482°F) (Solvent naphtha (petroleu heavy arom.).                                  | m), |  |
| Viscosity                 | 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 ingre  | edients. |
|------------------------------------|--|----------|
| Chemical stability                 | : The product is stable.   |          |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not oc  | cur.     |
| Conditions to avoid                | : When exposed to high temperatures may produce hazardous decompositio products.   | 'n       |
| Incompatible materials             | : Keep away from the following materials to prevent strong exothermic reaction oxidising agents, strong alkalis, strong acids. | ons:     |
| Hazardous decomposition products   | : Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides        | I        |

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### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name                         | Result                          | Species | Dose                    | Exposure |
|---|---------------------------------|---------|-------------------------|----------|
| <b>x</b> ylene                                  | LD50 Dermal                     | Rabbit  | 1.7 g/kg                | -        |
|   | LD50 Oral                       | Rat     | 4.3 g/kg                | -        |
| Solvent naphtha (petroleum), heavy arom.        | LC50 Inhalation Dusts and mists | Rat     | >5.2 mg/l               | 4 hours  |
|   | LD50 Oral                       | Rat     | >5 g/kg                 | -        |
| Solvent naphtha (petroleum), light aromatic     | LD50 Dermal                     | Rabbit  | 3.48 g/kg               | -        |
| -   | LD50 Oral                       | Rat     | 8400 mg/kg              | -        |
| ethylbenzene                                    | LC50 Inhalation Vapour          | Rat     | 17.8 mg/l               | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | 17.8 g/kg               | -        |
|   | LD50 Oral                       | Rat     | 3.5 g/kg                | -        |
| Naphtha (petroleum),<br>hydrodesulfurized heavy | LD50 Oral                       | Rat     | >5000 mg/kg             | -        |
| 1,2,4-trimethylbenzene                          | LC50 Inhalation Vapour          | Rat     | 18000 mg/m <sup>3</sup> | 4 hours  |
| -   | LD50 Oral                       | Rat     | 5 g/kg                  | -        |
| toluene   | LC50 Inhalation Vapour          | Rat     | 49 g/m <sup>3</sup>     | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | 8.39 g/kg               | -        |
|   | LD50 Oral                       | Rat     | 5580 mg/kg              | -        |

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

#### Irritation/Corrosion

| Product/ingredient nam | ie | Result                      | Species         | Score      | Exposure           | Observation |
|------------------------|----|-----------------------------|-----------------|------------|--------------------|-------------|
| xylene                 |    | Skin - Moderate irritant    | Rabbit          | -          | 24 hours 500<br>mg | -           |
| Conclusion/Summary     |    |                             |                 | ·          |                    |             |
| Skin                   | :  | There are no data available | e on the mixtur | e itself.  |                    |             |
| Eyes                   | 1  | There are no data available | e on the mixtur | e itself.  |                    |             |
| Respiratory            | 1  | There are no data available | e on the mixtur | e itself.  |                    |             |
| Sensitisation          |    |                             |                 |            |                    |             |
| Conclusion/Summary     |    |                             |                 |            |                    |             |
| Skin                   | :  | There are no data available | e on the mixtur | e itself.  |                    |             |
| Respiratory            | :  | There are no data available | e on the mixtur | e itself.  |                    |             |
| <u>Mutagenicity</u>    |    |                             |                 |            |                    |             |
| Conclusion/Summary     | :  | There are no data availabl  | e on the mixtu  | re itself. |                    |             |
| Carcinogenicity        |    |                             |                 |            |                    |             |
| Conclusion/Summary     | :  | There are no data availabl  | e on the mixtu  | re itself. |                    |             |
| Reproductive toxicity  |    |                             |                 |            |                    |             |
| Conclusion/Summary     | :  | There are no data availabl  | e on the mixtu  | re itself. |                    |             |
| Teratogenicity         |    |                             |                 |            |                    |             |
| Conclusion/Summary     | :  | There are no data availabl  | e on the mixtu  | re itself. |                    |             |
|                        |    |                             |                 |            |                    |             |

### Section 11. Toxicological information

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

| Name   | Category   | Route of exposure | Target organs                |
|--|------------|-------------------|------------------------------|
| xylene                                       | Category 3 | -                 | Respiratory tract irritation |
| Solvent naphtha (petroleum), heavy arom.     | Category 3 | -                 | Narcotic effects             |
| Solvent naphtha (petroleum), light aromatic  | Category 3 | -                 | Narcotic effects             |
| Naphtha (petroleum), hydrodesulfurized heavy | Category 3 | -                 | Narcotic effects             |
| 1,2,4-trimethylbenzene                       | Category 3 | -                 | Respiratory tract irritation |
| toluene                                      | Category 3 | -                 | Narcotic effects             |

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

| Name   | Category                 | Route of exposure | Target organs                                     |
|--|--------------------------|-------------------|---|
| ethylbenzene<br>Naphtha (petroleum), hydrodesulfurized heavy | Category 2<br>Category 1 | -                 | hearing organs<br>central nervous<br>system (CNS) |
| toluene  | Category 2               | -                 | -   |

#### **Aspiration hazard**

| Name   | Result                         |
|--|--------------------------------|
| xylene                                       | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), heavy arom.     | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light aromatic  | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                                 | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrodesulfurized heavy | ASPIRATION HAZARD - Category 1 |
| toluene                                      | ASPIRATION HAZARD - Category 1 |

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

#### Potential acute health effects

| Eye contact  | : Causes serious eye irritation.  |
|--------------|---|
| Inhalation   | : Farmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. |
| Skin contact | : Causes skin irritation. Defatting to the skin.  |
| Ingestion    | : 🗭an cause central nervous system (CNS) depression.  |

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

Eye contact

: Adverse symptoms may include the following: pain or irritation watering redness Product code 00445431

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| Section 11. Toxic              | ological information  |
|--------------------------------|---|
| Inhalation                     | : Adverse symptoms may include the following:<br>respiratory tract irritation<br>coughing<br>nausea or vomiting<br>headache<br>drowsiness/fatigue<br>dizziness/vertigo<br>unconsciousness |
| Skin contact                   | : Adverse symptoms may include the following:<br>irritation<br>redness<br>dryness<br>cracking   |
| Ingestion                      | : No specific data.   |
| Delayed and immediate effe     | cts as well as 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 eff   | <u>ects</u>   |
| 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.                 |
| 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

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Acute toxicity estimates

| Route  | ATE value                                |
|--|--|
| ▶ Formal Inhalation (vapours) Inhalation (dusts and mists) | 2695.49 mg/kg<br>26.74 mg/l<br>3.31 mg/l |

#### Other information

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### Section 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/ 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**

| Result   | Species  | Exposure  |
|--|--|---|
| NOEL 0.48 mg/l Fresh water   | Daphnia  | 21 days   |
| Acute LC50 8.2 mg/l  | Fish   | 96 hours  |
| Acute EC50 1.8 mg/l Fresh water<br>Chronic NOEC 1 mg/l Fresh water | Daphnia<br>Daphnia - Ceriodaphnia dubia  | 48 hours<br>-   |
|  | NOEL 0.48 mg/l Fresh water<br>Acute LC50 8.2 mg/l<br>Acute EC50 1.8 mg/l Fresh water | NOEL 0.48 mg/l Fresh water       Daphnia         Acute LC50 8.2 mg/l       Fish         Acute EC50 1.8 mg/l Fresh water       Daphnia |

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### Persistence/degradability

| Product/ingredient name | Test | Result                   | Dose | Inoculum |
|-------------------------|------|--------------------------|------|----------|
| <b>e</b> thylbenzene    | -    | 79 % - Readily - 10 days | -    | -        |
|                         |      |                          |      |          |

| <b>Conclusion/Summary</b> : There are no data available on the mixture itself. |                   |            |                               |  |
|--|-------------------|------------|-------------------------------|--|
| Product/ingredient name  | Aquatic half-life | Photolysis | Biodegradability              |  |
| ₩ylene<br>ethylbenzene<br>toluene  | -                 |            | Readily<br>Readily<br>Readily |  |

#### **Bioaccumulative potential**

| Product/ingredient name                  | LogPow     | BCF         | Potential |
|--|------------|-------------|-----------|
| <b>x</b> ylene                           | 3.12       | 7.4 to 18.5 | low       |
| Solvent naphtha (petroleum), heavy arom. | 2.8 to 6.5 | -           | high      |
| ethylbenzene                             | 3.6        | 79.43       | low       |
| 1,2,4-trimethylbenzene                   | 3.63       | 120.23      | low       |
| toluene                                  | 2.73       | 8.32        | low       |

#### Mobility in soil

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

Other adverse effects

: No known significant effects or critical hazards.

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|-----------|--------------|-------------|
|-----------|--------------|-------------|

#### Section 13. Disposal considerations

**Disposal methods** 

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

|  | UN   | IMDG   | ΙΑΤΑ   |  |
|--|--|--|--|--|
| UN number UN1263                               |  | UN1263   | UN1263   |  |
| UN proper<br>shipping name                     | PAINT  | PAINT  | PAINT  |  |
| Transport hazard3class(es)3                    |  | 3  | 3  |  |
| Packing group                                  | III  | III  | III  |  |
| Environmental<br>hazards                       | Yes. The environmentally hazardous substance mark is not required. | Yes.   | Yes. The environmentally hazardous substance mark is not required. |  |
| Marine pollutant Not applicable.<br>substances |  | Solvent naphtha (petroleum), Not applicable.<br>heavy aromatic, Solvent<br>naphtha (petroleum), light<br>aromatic) |  |  |

#### Additional information

| UN   | : None identified.   |
|------|--|
| IMDG | : IThe marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 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.

| Singap | ore English | (GB) |  |  |
|--------|-------------|------|--|--|
|--------|-------------|------|--|--|

### Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

### Section 15. Regulatory information

#### Singapore - hazardous chemicals under government control

None.

#### 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 | : 22 September 2022   |
| Date of previous issue         | : 9/19/2021   |
| 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 = International Air Transport Association<br/>IBC = 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.