## **SAFETY DATA SHEET**



Date of issue/Date of revision 1 February 2024 Version 5.03

# Section 1. Identification of the substance/mixture and of the company/undertaking

| Product code                  | : 00202801          |
|-------------------------------|---------------------|
| Product name                  | : SIGMADUR 540 BASE |
| Other means of identification | : Not available.    |
| Product type                  | : Liquid.           |

| Relevant identified uses | of the substance or mixture and uses advised against |
|--------------------------|--|
| Product use              | Coating.   |

|  | Professional applications, Used by spraying.   |
|--|--|
| Uses advised against                         | : Product is not intended, labelled or packaged for consumer use.  |
| Supplier's details                           | : PPG Coatings (Thailand) Co., Ltd.<br>15 Rama 9 Road, Kwaeng Huamark,<br>Khet Bangkapi, Bangkok 10240 Thailand<br>T: 662-319-4190 #224<br>F: 662-319-4189 |
| Emergency telephone<br>number (with hours of | : CHEMTREC 001-800-13-203-9987 (CCN 17704)   |

operation)

## Section 2. Hazards identification

| Classification of the substance or mixture | <ul> <li>FLAMMABLE LIQUIDS - Category 3<br/>SKIN CORROSION/IRRITATION - Category 2<br/>SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1<br/>AQUATIC HAZARD (ACUTE) - Category 3<br/>AQUATIC HAZARD (LONG-TERM) - Category 3</li> <li>Percentage of the mixture consisting of ingredient(s) of unknown hazards to the<br/>aquatic environment: 32.6%</li> </ul> |
|--|---|
| GHS label elements<br>Hazard pictograms    |   |

## Section 2. Hazards identification

| Signal word                | : Danger  |
|----------------------------|---|
| Hazard statements          | : Flammable liquid and vapor.<br>Causes skin irritation.<br>Causes serious eye damage.<br>Harmful to aquatic life with long lasting effects.  |
| Precautionary statements   |   |
| Prevention                 | : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Avoid release to the environment. Wash thoroughly after handling.                                      |
| Response                   | : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin<br>with water. Take off contaminated clothing and wash before reuse. IF ON SKIN:<br>Wash with plenty of water. If skin irritation occurs: Get medical advice or attention.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact<br>lenses, if present and easy to do. Continue rinsing. Immediately call a POISON<br>CENTER or doctor. |
| Storage                    | : Store in a well-ventilated place. 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

**Other hazards which do not** : Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

: Not applicable.

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

| CAS number |
|------------|
|------------|

| Ingredient name   | %         | CAS number |
|---|-----------|------------|
| -butyl acetate  | 10- <20   | 123-86-4   |
| xylene  | 5- <10    | 1330-20-7  |
| barium sulfate  | 5- <10    | 7727-43-7  |
| 2-methylpropan-1-ol   | 3 - <5    | 78-83-1    |
| dimethyl glutarate  | 3 - <5    | 1119-40-0  |
| Oxirane, 2-methyl-, polymer with oxirane, ether with 1,2,3-propanetriol (3: | 1- <3     | 9082-00-2  |
| 1)  |           |            |
| Solvent naphtha (petroleum), light aromatic                                 | 1- <3     | 64742-95-6 |
| 2-methoxy-1-methylethyl acetate   | 1- <3     | 108-65-6   |
| ethylbenzene  | 1- <3     | 100-41-4   |
| 1,2,4-trimethylbenzene  | 1- <3     | 95-63-6    |
| dimethyl succinate  | 1- <3     | 106-65-0   |
| trizinc bis(orthophosphate)   | 0.3 - <1  | 7779-90-0  |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate                             | 0.3 - <1  | 41556-26-7 |
| Hexanoic acid, 2-ethyl-, zinc salt, basic                                   | 0.1- <0.3 | 85203-81-2 |
| propylidynetrimethanol  | 0.1- <0.3 | 77-99-6    |
| toluene   | 0.1- <0.3 | 108-88-3   |

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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>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                                | : 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.   |  |

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

| Potential acute health effe | <u>cts</u>  | -   |
|-----------------------------|-------------|---|
| Eye contact                 | :           | Causes serious eye damage.  |
| Inhalation                  | :           | No known significant effects or critical hazards.   |
| Skin contact                | :           | Causes skin irritation. Defatting to the skin.  |
| Ingestion                   | :           | No known significant effects or critical hazards.   |
| Over-exposure signs/sym     | oton        | ns  |
| Eye contact                 | :           | Adverse symptoms may include the following:<br>pain<br>watering<br>redness  |
| Inhalation                  | 1           | 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  | <u>dica</u> | l 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         | 1           | 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. |
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## Section 4. First aid measures

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. This material is harmful 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>sulfur 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 | <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 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.   |

#### Methods and materials for containment and cleaning up

## Section 6. Accidental release measures

| 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 :<br>handling                                   | Put on appropriate personal protective equipment (see Section 8). Do not get in<br>eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid<br>release to the environment. Use only with adequate ventilation. Wear appropriate<br>respirator when ventilation is inadequate. Do not enter storage areas and confined<br>spaces unless adequately ventilated. Keep in the original container or an approved<br>alternative made from a compatible material, kept tightly closed when not in use.<br>Store and use away from heat, sparks, open flame or any other ignition source. Use<br>explosion-proof electrical (ventilating, lighting and material handling) equipment.<br>Use only non-sparking tools. Take precautionary measures against electrostatic<br>discharges. Empty containers retain product residue and can be hazardous. Do not<br>reuse container. |
|--|--|
| 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

<u>Control parameters</u> <u>Occupational exposure limits</u>

## Section 8. Exposure controls/personal protection

| Ingredient name                          | Exposure limits   |  |  |
|--|---|--|--|
| p-butyl acetate                          | ACGIH TLV (United States, 1/2023). [Butyl<br>acetates all isomers]<br>STEL: 150 ppm 15 minutes.   |  |  |
| xylene                                   | TWA: 50 ppm 8 hours.<br>Ministry of Labor (Thailand, 8/2017).<br>[xylene (o-, m-, p- isomers)]  |  |  |
| barium sulfate                           | TWA: 100 ppm 8 hours.<br><b>Ministry of Labor (Thailand, 8/2017).</b><br><b>[barium sulfate]</b><br>TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable<br>dust<br>TWA: 15 mg/m <sup>3</sup> 8 hours. Form: inhalable  |  |  |
| 2-methylpropan-1-ol                      | dust<br><b>ACGIH TLV (United States, 1/2023).</b><br>TWA: 152 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.  |  |  |
| ethylbenzene                             | Ministry of Labor (Thailand, 8/2017).<br>TWA: 100 ppm 8 hours.  |  |  |
| 1,2,4-trimethylbenzene<br>toluene        | ACGIH TLV (United States, 1/2023).<br>TWA: 10 ppm 8 hours.<br>Ministry of Labor (Thailand, 8/2017).<br>CEIL: 300 ppm<br>STEL: 500 ppm 10 minutes.<br>TWA: 200 ppm 8 hours.  |  |  |
| Recommended monitoring<br>procedures     | : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.   |  |  |
| 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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.         |  |  |
| 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.   |  |  |
| ndividual protection measur              | <u>S</u>  |  |  |
| Hygiene measures                         | : Wash hands, forearms and face thoroughly after handling chemical products, befor eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. |  |  |
| Eye protection<br><u>Skin protection</u> | : Chemical splash goggles and face shield.  |  |  |

Product code 00202801

Product name SIGMADUR 540 BASE

## Section 8. Exposure controls/personal 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: Chloroprene, nitrile rubber<br>Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), butyl<br>rubber, 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  | <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

| Appearance                                   |  |      |
|--|--|------|
| Physical state                               | Liquid.  |      |
| Color  | Various  |      |
| Odor   | Not available.   |      |
| Odor threshold                               | Not available.   |      |
| рН   | insoluble in water.  |      |
| Melting point                                | May start to solidify at the following temperature: 21.9°C (71.4°F) This is base data for the following ingredient: dimethyl succinate. Weighted average: -81.3 (-114.4°F) |      |
| Boiling point                                | >37.78°C (>100°F)  |      |
| Flash point                                  | Closed cup: 27°C (80.6°F)  |      |
| Evaporation rate                             | Highest known value: 1 (n-butyl acetate) Weighted average: 0.86compared v butyl acetate  | with |
| Flammability (solid, gas)                    | liquid   |      |
| Lower and upper explosive (flammable) limits | Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)   |      |
|  |  |      |

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## Section 9. Physical and chemical properties

| Vapor pressure                             | : | Ħghest known value: 1.5 kPa (11.3 mm Hg) (at 20°C) (n-butyl acetate). Weighted average: 0.94 kPa (7.05 mm Hg) (at 20°C) |  |  |
|--|---|---|--|--|
| Vapor density                              | : | Highest known value: 4.6 (Air = 1) (2-methoxy-1-methylethyl acetate). Weighted average: 3.75 (Air = 1)                  |  |  |
| Relative density                           | : | 1.3   |  |  |
| Solubility(ies)                            |   | Media Result  |  |  |
|  |   | cold water Not soluble  |  |  |
| Partition coefficient: n-<br>octanol/water | : | Not applicable.   |  |  |
| Auto-ignition temperature                  | : | 315°C   |  |  |
| Decomposition temperature                  | : | Stable under recommended storage and handling conditions (see Section 7).   |  |  |
| Viscosity                                  | : | Kinematic (room temperature): >400 mm²/s<br>Kinematic (40°C): >21 mm²/s   |  |  |
| Viscosity                                  | : | 60 - 100 s (ISO 6mm)  |  |  |

## 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.   |
| 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   | <ul> <li>Depending on conditions, decomposition products may include the following<br/>materials: carbon oxides sulfur oxides metal oxide/oxides</li> </ul> |

## Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

## Section 11. Toxicological information

| Product/ingredient name                | Result                          | Species    | Dose                    | Exposure     |
|--|---------------------------------|------------|-------------------------|--------------|
| <b>n</b> -butyl acetate                | LC50 Inhalation Vapor           | Rat        | >21.1 mg/l              | 4 hours      |
|  | LC50 Inhalation Vapor           | Rat        | 2000 ppm                | 4 hours      |
|  | LD50 Dermal                     | Rabbit     | >17600 mg/              | -            |
|  |                                 |            | kg                      |              |
|  | LD50 Oral                       | Rat        | 10.768 g/kg             | -            |
| xylene                                 | LD50 Dermal                     | Rabbit     | 1.7 g/kg                | -            |
| 5                                      | LD50 Oral                       | Rat        | 4.3 g/kg                | -            |
| barium sulfate                         | LD50 Dermal                     | Rat        | >2000 mg/kg             | -            |
|  | LD50 Oral                       | Rat        | >5000 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              | -            |
| dimethyl glutarate                     | LC50 Inhalation Dusts and mists | Rat        | >11 mg/l                | 4 hours      |
|  | LD50 Dermal                     | Rabbit     | >5000 mg/kg             | -            |
|  | LD50 Oral                       | Rat        | >5000 mg/kg             | -            |
| Oxirane, 2-methyl-, polymer with       | LD50 Dermal                     | Rabbit     | >5 g/kg                 | -            |
| oxirane, ether with 1,2,3-propanetriol | EB00 Bonnar                     | 1 (abbit   | o gritg                 |              |
| (3:1)                                  |                                 |            |                         |              |
| (0.1)                                  | LD50 Oral                       | Rat        | >10 g/kg                |              |
| Solvent naphtha (petroleum), light     | LD50 Dermal                     | Rabbit     | 3.48 g/kg               | -            |
| aromatic                               | LD00 Denna                      | T CODDIC   | 0.40 g/kg               | _            |
| aromatic                               | LD50 Oral                       | Rat        | 8400 mg/kg              |              |
| 2-methoxy-1-methylethyl acetate        | LC50 Inhalation Vapor           | Rat        | 30 mg/l                 | -<br>4 hours |
|  | LD50 Dermal                     | Rabbit     | >5 g/kg                 | 4 110015     |
|  | LD50 Oral                       | Rat        | 6190 mg/kg              | -            |
| ethylbenzene                           | LC50 Inhalation Vapor           | Rat        | 17.8 mg/l               | -<br>4 hours |
| ethylbenzene                           | LD50 Dermal                     | Rabbit     | 17.8 g/kg               | 4 110015     |
|  | LD50 Oral                       | Rat        | 3.5 g/kg                | -            |
| 1,2,4-trimethylbenzene                 | LC50 Inhalation Vapor           | Rat        | 18000 mg/m <sup>3</sup> | -<br>4 hours |
|  | LD50 Oral                       | Rat        | 5 g/kg                  | 4 110015     |
| dimethyl succinate                     | LC50 Inhalation Dusts and mists | Rat        | >5900 mg/m <sup>3</sup> | -<br>4 hours |
|  | LD50 Dermal                     | Rabbit     | >5000 mg/kg             | 4 110015     |
|  | LD50 Oral                       | Rabbil     |                         | -            |
| trizina hig/arthanhaanhata)            | LC50 Inhalation Dusts and mists | Rat        | >5 g/kg                 | -<br>4 hours |
| trizinc bis(orthophosphate)            |                                 |            | >5.7 mg/l               | 4 nours      |
| high 1 2 2 6 6 pontomothy 1 4 pinceted | LD50 Oral                       | Rat<br>Rat | >5000 mg/kg             | -            |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) | LD50 Oral                       | Ral        | 3.125 g/kg              | -            |
| sebacate                               |                                 | Dahkit     | 10                      |              |
| propylidynetrimethanol                 | LD50 Dermal                     | Rabbit     | 10 g/kg                 | -            |
|  | LD50 Oral                       | Rat        | 14000 mg/kg             | -            |
| toluene                                | LC50 Inhalation Vapor           | 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 name | Result                   | Species | Score | Exposure           | Observation |
|-------------------------|--------------------------|---------|-------|--------------------|-------------|
| kylene                  | Skin - Moderate irritant | Rabbit  |       | 24 hours 500<br>mg | -           |

#### **Conclusion/Summary**

## Section 11. Toxicological information

|                           | •  |
|---------------------------|--|
| 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             |  |
| Conclusion/Summary        |  |
| Skin                      | : There are no data available on the mixture itself. |
| Respiratory               | : There are no data available on the mixture itself. |
| <u>Mutagenicity</u>       |  |
| <b>Conclusion/Summary</b> | : There are no data available on the mixture itself. |
| <b>Carcinogenicity</b>    |  |
| <b>Conclusion/Summary</b> | : There are no data available on the mixture itself. |
| Reproductive toxicity     |  |
| <b>Conclusion/Summary</b> | : There are no data available on the mixture itself. |
| <b>Teratogenicity</b>     |  |
| <b>Conclusion/Summary</b> | : There are no data available on the mixture itself. |

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

| Name  | Category   | Route of exposure | Target organs                |
|---|------------|-------------------|------------------------------|
| n-butyl acetate                             | Category 3 | -                 | Narcotic effects             |
| xylene                                      | Category 3 | -                 | Respiratory tract irritation |
| 2-methylpropan-1-ol                         | Category 3 | -                 | Respiratory tract irritation |
|   | Category 3 |                   | Narcotic effects             |
| Solvent naphtha (petroleum), light aromatic | Category 3 | -                 | Narcotic effects             |
| 2-methoxy-1-methylethyl acetate             | 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 | •••                      | Route of<br>exposure | Target organs       |
|------|--------------------------|----------------------|---------------------|
|      | Category 2<br>Category 2 | -                    | hearing organs<br>- |

#### **Aspiration hazard**

| Name  | Result                         |
|---|--------------------------------|
| xylene                                      | ASPIRATION HAZARD - Category 1 |
| 2-methylpropan-1-ol                         | ASPIRATION HAZARD - Category 2 |
| Solvent naphtha (petroleum), light aromatic | ASPIRATION HAZARD - Category 1 |
| ethylbenzene                                | ASPIRATION HAZARD - Category 1 |
| toluene                                     | ASPIRATION HAZARD - Category 1 |

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

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## Section 11. Toxicological information

#### Potential acute health effects

| Eye contact  | : Causes serious eye damage.                        |
|--------------|---|
| Inhalation   | : No known significant effects or critical hazards. |
| Skin contact | : Causes skin irritation. Defatting to the skin.    |
| 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<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 effects 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            | : Not available.   |
| effects                        |  |
| Potential delayed effects      | : Not available.   |
| Potential chronic health eff   | ects   |
| General                        | : Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/<br>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

Acute toxicity estimates

Section 11. Toxicological information

| Route                        | ATE value     |
|------------------------------|---------------|
| Øral                         | 8341.28 mg/kg |
| Dermal                       | 8222.23 mg/kg |
| Inhalation (vapors)          | 69.98 mg/l    |
| Inhalation (dusts and mists) | 8.41 mg/l     |

#### 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      |
|---|--|---|---------------|
| -butyl acetate                              | Acute LC50 18 mg/l                                       | Fish  | 96 hours      |
| 2-methylpropan-1-ol                         | Acute EC50 1100 mg/l                                     | Daphnia                                     | 48 hours      |
| Solvent naphtha (petroleum), light aromatic | Acute LC50 8.2 mg/l                                      | Fish  | 96 hours      |
| 2-methoxy-1-methylethyl acetate             | Acute LC50 134 mg/l Fresh water                          | Fish - Oncorhynchus mykiss                  | 96 hours      |
| ethylbenzene                                | Acute EC50 1.8 mg/l Fresh water                          | Daphnia                                     | 48 hours      |
| trizinc bis(orthophosphate)                 | Chronic NOEC 1 mg/l Fresh water<br>Acute LC50 0.112 mg/l | Daphnia - <i>Ceriodaphnia dubia</i><br>Fish | -<br>96 hours |
|   | Chronic NOEC 0.026 mg/l                                  | Fish  | 30 days       |
| propylidynetrimethanol                      | Acute LC50 >1000 mg/l                                    | Fish  | 96 hours      |
| Conclusion/Summary                          | : There are no data available on the m                   | nixture itself.                             |               |

#### Persistence/degradability

| Product/ingredient name         | Test                  | Result                      | Dose        | Inoculum         |
|---------------------------------|-----------------------|-----------------------------|-------------|------------------|
| -butyl acetate                  | TEPA and<br>OECD 301D | 83 % - Readily - 28 days    | -           | -                |
| 2-methoxy-1-methylethyl acetate | -                     | 83 % - Readily - 28 days    | -           | -                |
| ethylbenzene                    | -                     | 79 % - Readily - 10 days    | -           | -                |
| Conclusion/Summary              | : There are no        | data available on the mixtu | ire itself. |                  |
| Product/ingredient name         | Aquatic half-life     | e Pho                       | otolysis    | Biodegradability |
| <b>p</b> -butyl acetate         | -                     | -                           |             | Readily          |
| xylene                          | -                     | -                           |             | Readily          |
| 2-methoxy-1-methylethyl acetate | -                     | -                           |             | Readily          |
| ethylbenzene                    | -                     | -                           |             | Readily          |
| toluene                         | -                     | -                           |             | Readily          |

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## Section 12. Ecological information

#### **Bioaccumulative potential**

| Product/ingredient name         | LogPow | BCF         | Potential |
|---------------------------------|--------|-------------|-----------|
| p-butyl acetate                 | 2.3    | -           | Low       |
| xylene                          | 3.12   | 7.4 to 18.5 | Low       |
| 2-methylpropan-1-ol             | 1      | -           | Low       |
| dimethyl glutarate              | 0.49   | -           | Low       |
| 2-methoxy-1-methylethyl acetate | 1.2    | -           | Low       |
| ethylbenzene                    | 3.6    | 79.43       | Low       |
| 1,2,4-trimethylbenzene          | 3.63   | 120.23      | Low       |
| dimethyl succinate              | 0.33   | -           | Low       |
| propylidynetrimethanol          | -0.47  | -           | Low       |
| toluene                         | 2.73   | 8.32        | Low       |

#### Mobility in soil

| Soil/water partition<br>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

| UN     | IMDG                 | IATA  |
|--------|----------------------|---|
| UN1263 | UN1263               | UN1263  |
| PAINT  | PAINT                | PAINT   |
| 3      | 3                    | 3   |
| III    | III                  | III   |
|        |                      |   |
|        | UN1263<br>PAINT<br>3 | UN1263         UN1263           PAINT         PAINT           3         3 |

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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           | This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1.  |
|--------------|---|
| IMDG         | <ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to<br/>2.3.2.5.</li> </ul>  |
| ΙΑΤΑ         | : None identified.  |
| Special prec | autions 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

# Harmful Chemicals List<br/>Safety, health and<br/>environmental regulations<br/>specific for the product: ListedInternational regulations<br/>Montreal Protocol<br/>Not listed.: No known specific national and/or regional regulations applicable to this product<br/>(including its ingredients).

Stockholm Convention on Persistent Organic Pollutants

Not listed.

## Section 16. Other information

| <u>History</u>                 |                   |
|--------------------------------|-------------------|
| Date of issue/Date of revision | : 1 February 2024 |
| Date of previous issue         | : 8/17/2023       |
| Version                        | : 5.03            |
| Prepared by                    | : EHS             |

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## Section 16. Other information

| Key to abbreviations | : ADN = European Provisions concerning the International Carriage of Dangerous |
|----------------------|--|
|                      | Goods by Inland Waterway   |
|                      | ADR = The European Agreement concerning the International Carriage of          |
|                      | Dangerous Goods by Road  |
|                      | ATE = Acute Toxicity Estimate  |
|                      | BCF = Bioconcentration Factor  |
|                      | GHS = Globally Harmonized System of Classification and Labelling of Chemicals  |
|                      | IATA = International Air Transport Association                                 |
|                      | IMDG = International Maritime Dangerous Goods                                  |
|                      | LogPow = logarithm of the octanol/water partition coefficient                  |
|                      | MARPOL = International Convention for the Prevention of Pollution From Ships,  |
|                      | 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)        |
|                      | RID = The Regulations concerning the International Carriage of Dangerous Goods |
|                      | by Rail  |
|                      | UN = United Nations  |

**V** 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.