## **SAFETY DATA SHEET**



Date of issue/Date of revision 17 October 2024 Version 7

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

| Product code                     | : 00191018                   |
|----------------------------------|------------------------------|
| Product name                     | : SIGMASHIELD 420 BASE BLACK |
| Other means of<br>identification | : Not available.             |
| Product type                     | : Liquid.                    |

| Relevant identified uses of the substance or mixture and uses advised against |  |  |
|---|--|--|
| Product use   | <ul> <li>Coating.<br/>Professional applications, Used by spraying.</li> </ul>  |  |
| 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<br>operation)                    | : CHEMTREC 001-800-13-203-9987 (CCN 17704)   |  |

### Section 2. Hazards identification

| Classification of the<br>substance or mixture | <ul> <li>AMMABLE LIQUIDS - Category 3         ACUTE TOXICITY (oral) - Category 5         ACUTE TOXICITY (dermal) - Category 5         ACUTE TOXICITY (inhalation) - Category 4         SKIN CORROSION/IRRITATION - Category 2         SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1         SKIN SENSITIZATION - Category 1B         AQUATIC HAZARD (ACUTE) - Category 2         AQUATIC HAZARD (LONG-TERM) - Category 2         AQUATIC HAZARD (LONG-TERM) - Category 2         Acutal Contemporation of the second sec</li></ul> |
|---|--|
|   |  |

## Section 2. Hazards identification

|   |   | Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 31%  |
|---|---|--|
|   |   | Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 62.3%  |
|   |   | Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 80.7%  |
|   |   | Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 56%   |
| GHS label elements                                  |   |  |
| Hazard pictograms                                   | 1 |  |
|   |   |  |
| Signal word   | : | Danger   |
| Hazard statements                                   | : | <ul> <li>Fammable liquid and vapor.</li> <li>May be harmful if swallowed or in contact with skin.</li> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Harmful if inhaled.</li> <li>Toxic to aquatic life with long lasting effects.</li> </ul>   |
| Precautionary statements                            |   |  |
| Prevention  | : | Wear protective gloves, protective clothing and eye or face protection. Keep away<br>from heat, hot surfaces, sparks, open flames and other ignition sources. No<br>smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-<br>sparking tools. Take action to prevent static discharges. Keep container tightly<br>closed. Use only outdoors or in a well-ventilated area. Avoid release to the<br>environment. Avoid breathing vapor. Wash thoroughly after handling.<br>Contaminated work clothing should not be allowed out of the workplace.  |
| Response  | : | Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for<br>breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED:<br>Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off<br>immediately all contaminated clothing. Rinse skin with water. IF ON SKIN: Call a<br>POISON CENTER or doctor if you feel unwell. If skin irritation or rash occurs: Get<br>medical advice or attention. Take off contaminated clothing and wash before reuse.<br>Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water<br>for several minutes. Remove contact lenses, if present and easy to do. Continue<br>rinsing. Immediately call a POISON 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 result in classification | : | 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.

| Ingredient name   | %       | CAS number |
|---|---------|------------|
| Reaction product: bisphenol-A-(epichlorhydrin); epoxy resin | 20- <25 | 25068-38-6 |
| Talc , not containing asbestiform fibres                    | 10- <20 | 14807-96-6 |
| xylene  | 5- <10  | 1330-20-7  |
| 2-methylpropan-1-ol   | 1- <3   | 78-83-1    |
| ethylbenzene  | 1- <3   | 100-41-4   |
| nonylphenol   | 1- <3   | 25154-52-3 |

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  | : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.                            |
|--------------|--|
| Inhalation   | : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| 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 et     | ffects   |
|-------------------------------|--|
| Eye contact                   | : Causes serious eye damage.   |
| Inhalation                    | : Harmful if inhaled.  |
| Skin contact                  | May be harmful in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion                     | : May be harmful if swallowed.   |
| <u>Over-exposure signs/sy</u> | mptoms   |
| Eye contact                   | : Adverse symptoms may include the following:<br>pain<br>watering<br>redness   |
| Inhalation                    | : No specific data.  |

### Section 4. First aid measures

| Skin contact               | : Adverse symptoms may include the following:<br>pain or irritation   |
|----------------------------|---|
|                            | redness   |
|                            | dryness<br>cracking   |
|                            | blistering may occur  |
| Ingestion                  | : Adverse symptoms may include the following:   |
|                            | stomach pains   |
|                            |   |
| Indication of immediate me | dical 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>   |
| 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     | : Mammable liquid and vapor. Runoff to sewer may create fire or explosion hazard.<br>In a fire or if heated, a pressure increase will occur and the container may burst, with<br>the risk of a subsequent explosion. This material is toxic to aquatic life with long<br>lasting effects. Fire water contaminated with this material must be contained and<br>prevented from being discharged to any waterway, sewer or drain. |
| Hazardous thermal decomposition products       | : Decomposition products may include the following materials:<br>carbon oxides<br>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. 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".   |
|                                | : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.  |
| Methods and materials for co   | ntainment and cleaning up   |
| Small spill                    | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.  |
| 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 |

### Section 7. Handling and storage

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

emergency contact information and Section 13 for waste disposal.

### 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 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   |  |
|-----------------------------------|--|---|--|
|                                   | orm fibres   | Ministry of Labor (Thailand, 8/2017)<br>TWA 8 hours: 2 mg/m <sup>3</sup> . Form: Respirable<br>dust.  |  |
| xylene                            |  | Ministry of Labor (Thailand, 8/2017)<br>[xylene (o-, m-, p- isomers)]<br>TWA 8 hours: 100 ppm.  |  |
| 2-methylpropan-1-ol               |  | ACGIH TLV (United States, 7/2023)<br>TWA 8 hours: 50 ppm.<br>TWA 8 hours: 152 mg/m <sup>3</sup> .   |  |
| ethylbenzene                      |  | Ministry of Labor (Thailand, 8/2017)<br>TWA 8 hours: 100 ppm.   |  |
| Recommended monitoring procedures |  | nade to appropriate monitoring standards. Reference to iments for methods for the determination of hazardous required.  |  |
| Appropriate engineering controls  | ventilation or other engi<br>contaminants below an<br>also need to keep gas,                         | 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 controls   | they comply with the re-<br>cases, fume scrubbers  | 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       | res  |   |  |
| Hygiene measures                  | eating, smoking and us<br>Appropriate techniques<br>Contaminated work clo<br>contaminated clothing b | 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>Contaminated work clothing should not be allowed out of the workplace. Wash<br>contaminated clothing before reusing. Ensure that eyewash stations and safety<br>showers are close to the workstation location. |  |
| Eye protection                    | : Chemical splash goggle   | es and face shield.   |  |
|                                   |  | Thailand Page: 6/14   |  |

Product code 00191018

Product name SIGMASHIELD 420 BASE BLACK

### Section 8. Exposure controls/personal protection

| <u>Skin</u> | protection |  |
|-------------|------------|--|
|             |            |  |

| Hand protection        | : Chemical-resistant, impervious gloves complying with an approved standard should<br>be worn at all times when handling chemical products if a risk assessment indicates<br>this is necessary. Considering the parameters specified by the glove manufacturer,<br>check during use that the gloves are still retaining their protective properties. It<br>should be noted that the time to breakthrough for any glove material may be<br>different for different glove manufacturers. In the case of mixtures, consisting of<br>several substances, the protection time of the gloves cannot be accurately<br>estimated. |
|------------------------|---|
| Gloves                 | : butyl rubber  |
| Body protection        | : Personal protective equipment for the body should be selected based on the task<br>being performed and the risks involved and should be approved by a specialist<br>before handling this product. When there is a risk of ignition from static electricity,<br>wear anti-static protective clothing. For the greatest protection from static<br>discharges, clothing should include anti-static overalls, boots and gloves.   |
| Other skin protection  | <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   | : | Characteristic.         |             |
| Odor threshold                               | 1 | Not available.          |             |
| рН   | : | insoluble in water.     |             |
| Melting point                                | : | Not available.          |             |
| Boiling point                                | 1 | >37.78°C (>100°F)       |             |
| Flash point                                  | 1 | Closed cup: 25°C (77°F) |             |
| Evaporation rate                             | : | Not available.          |             |
| Flammability (solid, gas)                    | 1 | liquid                  |             |
| Lower and upper explosive (flammable) limits | 1 | Not available.          |             |
| Vapor pressure                               | : | Not available.          |             |
| Vapor density                                | 1 | Not available.          |             |
| Relative density                             | : | 1.58                    |             |
| Solubility(ies)                              |   | Media                   | Result      |
| oolubility(les)                              | 1 | cold water              | Not soluble |
|  |   | <u> </u>                |             |

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

| Partition coefficient: n-<br>octanol/water | - | Not applicable.   |
|--|---|---|
| Auto-ignition temperature                  | : | Not available.  |
| Decomposition temperature                  | 1 | Stable under recommended storage and handling conditions (see Section 7). |
| Viscosity                                  | : |   |

### 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   | : 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 |
|---|-----------------------|---------|------------|----------|
| Reaction product: bisphenol-A-<br>(epichlorhydrin); epoxy resin | LD50 Dermal           | Rabbit  | >2 g/kg    | -        |
|   | LD50 Oral             | Rat     | >2 g/kg    | -        |
| xylene  | LD50 Dermal           | Rabbit  | 1.7 g/kg   | -        |
|   | LD50 Oral             | Rat     | 4.3 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 | -        |
| 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   | -        |
| nonylphenol   | LD50 Dermal           | Rabbit  | 2.14 g/kg  | -        |
|   | LD50 Oral             | Rat     | 580 mg/kg  | -        |

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

Irritation/Corrosion

#### Product code 00191018

Product name SIGMASHIELD 420 BASE BLACK

### Section 11. Toxicological information

| Product/ingredient name  | Result   |           | Species         | Score     | e Ex           | posure    | Observation |
|--|--|-----------|-----------------|-----------|----------------|-----------|-------------|
| A-(epichlorhydrin); epoxy resin                                    | Eyes - Mild irritan                                  | t         | Rabbit          | -         | 100            | ) mg      | -           |
|  | Eyes - Moderate i                                    | rritant   | Rabbit          | -         | -              |           | -           |
|  | Skin - Moderate ir                                   | ritant    | Rabbit          | -         | -              |           | -           |
|  | Skin - Moderate ir                                   | ritant    | Rabbit          | -         | 24<br>UI       | hours 500 | -           |
|  | Skin - Severe irrit                                  | ant       | Rabbit          | -         | 24             | hours 2   | -           |
| xylene   | Skin - Moderate ir                                   | ritant    | Rabbit          | -         | mg<br>24<br>mg | hours 500 | -           |
| Conclusion/Summary   |  |           |                 |           |                |           |             |
| Skin :   | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| Eyes :   | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| Respiratory :  | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| <u>ensitization</u>  |  |           |                 |           |                |           |             |
| Product/ingredient name  | Route of exposure                                    | Species   | S               |           | Result         |           |             |
| reaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin | skin   | Mouse     |                 |           | Sensitizir     | ng        |             |
| Conclusion/Summary   |  |           |                 |           | •              |           |             |
|  | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| Respiratory :  | There are no data                                    | available | on the mixtur   | e itself. |                |           |             |
| <u>Iutagenicity</u>  |  |           |                 |           |                |           |             |
| Conclusion/Summary :   | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| Carcinogenicity  |  |           |                 |           |                |           |             |
| Conclusion/Summary :   | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| Reproductive toxicity  |  |           |                 |           |                |           |             |
| Conclusion/Summary :   | There are no data                                    | available | e on the mixtur | e itself. |                |           |             |
| eratogenicity  |  |           |                 |           |                |           |             |
| Conclusion/Summary :   | : There are no data available on the mixture itself. |           |                 |           |                |           |             |
| pecific target organ toxicit                                       | y (single exposure                                   | <u>e)</u> |                 |           |                |           |             |
| Name   |  |           | Category        | Route o   |                | Target o  | rgans       |

|  |                          | exposure |  |
|--|--------------------------|----------|--|
| ✓alc , not containing asbestiform fibres | Category 3               | -        | Respiratory tract irritation                     |
| xylene                                   | Category 3               | -        | Respiratory tract irritation                     |
| 2-methylpropan-1-ol                      | Category 3<br>Category 3 | -        | Respiratory tract irritation<br>Narcotic effects |
|  | - 3 7 -                  |          |  |

Specific target organ toxicity (repeated exposure)

Thailand

Page: 10/14

Section 11. Toxicological information

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

#### Aspiration hazard

| Name                | Result                         |
|---------------------|--------------------------------|
| xylene              | ASPIRATION HAZARD - Category 1 |
| 2-methylpropan-1-ol | ASPIRATION HAZARD - Category 2 |
| ethylbenzene        | ASPIRATION HAZARD - Category 1 |

| Information on the likely routes of exposure | :           | Not available.  |
|--|-------------|---|
| Potential acute health effect                | <u>s</u>    |   |
| Eye contact                                  | :           | Causes serious eye damage.  |
| Inhalation                                   | :           | Harmful if inhaled.   |
| Skin contact                                 | :           | May be harmful in contact with skin. Causes skin irritation. Defatting to the skin.<br>May cause an allergic skin reaction. |
| Ingestion                                    | 1           | May be harmful if swallowed.  |
| Symptoms related to the phy                  | <u>/sic</u> | cal, 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                                    | 1           | Adverse symptoms may include the following:<br>stomach pains  |
| Delayed and immediate effect                 | <u>cts</u>  | and also chronic effects from short and long term exposure  |
| <u>Short term exposure</u>                   |             |   |
| Potential immediate<br>effects               | :           | Not available.  |
| Potential delayed effects                    | :           | Not available.  |
| Long term exposure                           |             |   |
| Potential immediate<br>effects               | :           | Not available.  |
|  |             |   |

### Section 11. Toxicological information

| Potential delayed effects    | : Not available.  |
|------------------------------|---|
| Potential chronic health eff | fects   |
| General                      | <ul> <li>Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/<br/>or dermatitis. Once sensitized, a severe allergic reaction may occur when<br/>subsequently exposed to very low levels.</li> </ul> |
| Carcinogenicity              | : No known significant effects or critical hazards.   |
| Mutagenicity                 | : No known significant effects or critical hazards.   |
| Reproductive toxicity        | : No known significant effects or critical hazards.   |

#### Numerical measures of toxicity

#### Acute toxicity estimates

| Route                        | ATE value     |
|------------------------------|---------------|
| Øral                         | 4672.99 mg/kg |
| Dermal                       | 2431.05 mg/kg |
| Inhalation (vapors)          | 22.76 mg/l    |
| Inhalation (dusts and mists) | 2.92 mg/l     |

#### Other information

Folonged 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

| Т | ο | x | С | itv | / |
|---|---|---|---|-----|---|
|   | - |   | - |     |   |

| Product/ingredient name  | Result                              | Species                            | Exposure |
|--|-------------------------------------|------------------------------------|----------|
| Peaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin | Chronic NOEC 0.3 mg/l               | Daphnia                            | 21 days  |
| 2-methylpropan-1-ol  | Acute EC50 1100 mg/l                | Daphnia                            | 48 hours |
| ethylbenzene   | Acute EC50 1.8 mg/l Fresh water     | Daphnia                            | 48 hours |
| -  | Chronic NOEC 1 mg/l Fresh water     | Daphnia - Ceriodaphnia dubia       | -        |
| nonylphenol  | Acute EC50 0.056 mg/l Fresh water   | Algae - Desmodesmus<br>subspicatus | 72 hours |
|  | Chronic EC10 0.003 mg/l Fresh water | Algae - Desmodesmus<br>subspicatus | 72 hours |
|  | Chronic NOEC 1 µg/l Fresh water     | Daphnia - <i>Daphnia magna</i>     | 21 days  |

Conclusion/Summary

: There are no data available on the mixture itself.

#### Persistence/degradability

#### Product code 00191018

#### Date of issue 17 October 2024 Version 7

Product name SIGMASHIELD 420 BASE BLACK

### Section 12. Ecological information

| Product/ingredient name  | Test            | Result                                 | Dose        | Inoculum           |
|--|-----------------|--|-------------|--------------------|
| Reaction product: bisphenol-<br>A-(epichlorhydrin); epoxy<br>resin<br>ethylbenzene | OECD 301F       | 5 % - 28 days<br>79 % - Readily - 10 d | -<br>lays - | -                  |
| Conclusion/Summary : There are no data available on the mixture itself.            |                 |  |             |                    |
| Product/ingredient name  | Aquatic half-li | fe I                                   | Photolysis  | Biodegradability   |
| A-(epichlorhydrin); epoxy<br>resin   | -               | -                                      |             | Not readily        |
| xylene<br>ethylbenzene   | -               | -                                      |             | Readily<br>Readily |

#### **Bioaccumulative potential**

| Product/ingredient name                                   | LogPow | BCF         | Potential |
|---|--------|-------------|-----------|
| Action product: bisphenol-A-(epichlorhydrin); epoxy resin |        | -           | Low       |
| xylene  | 3.12   | 7.4 to 18.5 | Low       |
| 2-methylpropan-1-ol                                       | 1      | -           | Low       |
| ethylbenzene  | 3.6    | 79.43       | Low       |
| nonylphenol   | 3.28   | 154.88      | Low       |

#### Mobility in soil

| Soil/water partition           |  |
|--------------------------------|--|
| coefficient (Koc)              |  |
| coefficient (K <sub>oc</sub> ) |  |

: Not available.

Other adverse effects

### : No known significant effects or critical hazards.

### Section 13. Disposal considerations

| Disposa | I 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   |
|-------------------------------|--|-------------|--|
| UN number                     | UN1263   | UN1263      | UN1263   |
| UN proper<br>shipping name    | PAINT  | PAINT       | PAINT  |
| Transport hazard<br>class(es) | 3  | 3           | 3  |
| Packing group                 | III  | III         | III  |
| Environmental<br>hazards      | Yes. The environmentally hazardous substance mark is not required. | Yes.        | Yes. The environmentally<br>hazardous substance mark is<br>not required. |
| Marine pollutant substances   | Not applicable.  | <pre></pre> | Not applicable.  |

#### **Additional information**

| UN<br>IMDG<br>IATA | <ul> <li>None identified.</li> <li>The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> <li>The environmentally hazardous substance mark may appear if required by other transportation regulations.</li> </ul> |
|--------------------|---|
| Special precau     | <b>Itions for user : Transport within user's premises:</b> 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 | Chem | icals | List |
|--|---------|------|-------|------|
|--|---------|------|-------|------|

: Listed

Safety, health and environmental regulations specific for the product : No known specific national and/or regional regulations applicable to this product (including its ingredients).

**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 | : 17 October 2024   |
| Date of previous issue         | : 6/25/2021   |
| Version                        | : 7   |
| Prepared by                    | : EHS   |
| Key to abbreviations           | <ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous<br/>Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of<br/>Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships,<br/>1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods<br/>by Rail</li> <li>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.