# SAFETY DATA SHEET



Date of issue 2/18/2024 (month/day/year)

Version 1

## Section 1. Chemical product and company identification

| A. Product name | : SIGMASHIELD 905 BASE GREY 5163 |
|-----------------|----------------------------------|
| Product code    | : 00476251                       |

### B. Relevant identified uses of the substance or mixture and uses advised against

| Product use<br>Use of the substance/<br>mixture          | <ul><li>Professional applications, Used by spraying.</li><li>Coating.</li></ul>  |
|--|--|
| Uses advised against                                     | : Product is not intended, labelled or packaged for consumer use.  |
| C. Supplier's or Importer's information<br>Email Address | : PPG SSC<br>(680-090)<br>19, Yeocheon-ro 217beon-gil, Nam-gu,<br>Ulsan, Korea<br>Tel: +82-52-210-8222<br>Korea.MSDS@PPG.COM |
| Emergency telephone number:                              | : +82-52-210-8331  |

# Section 2. Hazards identification

| A. Hazard classification        | : ACUTE TOXICITY (inhalation) - Category 4  |
|---------------------------------|---|
|                                 | SKIN IRRITATION - Category 2  |
|                                 | EYE IRRITATION - Category 2A  |
|                                 | SKIN SENSITIZATION - Category 1   |
|                                 | CARCINOGENICITY - Category 2  |
|                                 | AQUATIC HAZARD (LONG-TERM) - Category 2   |
| This product is classified in a | accordance with the Industrial Safety and Health Act and the Chemical Control Act |

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

#### B. GHS label elements, including precautionary statements

| Symbol            |  |  |  |  |
|-------------------|--|--|--|--|
| Signal word       | : Warning  |  |  |  |
| Hazard statements | <ul> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H332 - Harmful if inhaled.</li> <li>H351 - Suspected of causing cancer.</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul> |  |  |  |

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### Section 2. Hazards identification

| Precautionary statement   | 3  |
|---------------------------|--|
| Prevention                | <ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>  |
| Response                  | <ul> <li>P391 - Collect spillage.</li> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: Get medical advice or attention.</li> </ul> |
| Storage                   | : Not applicable.  |
| Disposal                  | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| C. Other hazards which do | : None known.  |

## Section 3. Composition/information on ingredients

#### CAS number/other identifiers

not result in classification

**CAS number** : Not applicable.

| Chemical name  | Common name   | Identifiers   | %  |
|--|---|---|--|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane  | Bisphenol A diglycidyl ether  | CAS: 1675-54-3  | 40 -<br><50  |
| Talc , not containing asbestiform fibres<br>1,6-bis(2,3-epoxypropoxy)hexane<br>benzyl alcohol<br>glass, oxide, chemicals<br>titanium dioxide | Talc, non-asbestos form<br>1,6-HEXANDIOLGLYCIDETHER<br>BENZYL ALCOHOL<br>GLASS OXIDES<br>TITANIUM DIOXIDE | CAS: 14807-96-6<br>CAS: 16096-31-4<br>CAS: 100-51-6<br>CAS: 65997-17-3<br>CAS: 13463-67-7 | 10 -<20<br>5 - <10<br>5 - <10<br>5 - <10<br>1 - <5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

### Section 4. First aid measures

- A. Eye contact
- : Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
- B. 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.

### Section 4. First aid measures

| C. | 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.  |
|----|----------------------------|---|---|
| D. | Ingestion                  | : | If swallowed, seek medical advice immediately and show this container or label.<br>Keep person warm and at rest. Do NOT induce vomiting.  |
| Е. | Notes to physician         | : | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.   |
|    | Specific treatments        | : | No specific treatment.  |
|    | Protection of first-aiders | : | No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. |

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

| Α. | Extinguishing media                           |   |  |
|----|---|---|--|
|    | Suitable extinguishing media                  | : | Use an extinguishing agent suitable for the surrounding fire.  |
|    | Unsuitable<br>extinguishing media             | : | None known.  |
| в. | Specific hazards arising<br>from the chemical | : | In a fire or if heated, a pressure increase will occur and the container may burst.<br>This material is toxic to aquatic life with long lasting effects. Fire water<br>contaminated with this material must be contained and prevented from being<br>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   |
| C. | Special equipment for<br>fire-fighting        | : | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.  |
|    | Fire-fighting procedures                      | : | 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.  |

## Section 6. Accidental release measures

 A. Personal precautions, protective equipment and emergency procedures
 No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

# Section 6. Accidental release measures

| B. Environmental | : Avoid dispersal of spilled material and runoff and contact with soil, waterways,   |
|------------------|--|
| precautions      | 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. |

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

| Small spill | : Stop leak if without risk. Move containers from spill area. Dilute with water and mop<br>up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry<br>material and place in an appropriate waste disposal container. Dispose of via a<br>licensed waste disposal contractor.  |
|-------------|---|
| Large spill | : Stop leak if without risk. Move containers from spill area. 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

| Α. | Precautions for safe<br>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. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. |
|----|--|---|--|
| В. | Conditions for safe<br>storage, 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 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. 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

### A. Occupational exposure limits

# Section 8. Exposure controls/personal protection

|            | Ingredient name                                     |      |   | Exposure limits   |
|------------|---|------|---|---|
|            | Talc , not containing asbes glass, oxide, chemicals | tifc | rm fibres   | Ministry of Employment and Labor<br>(Republic of Korea, 1/2020).<br>TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers<br>Ministry of Employment and Labor<br>(Republic of Korea, 1/2020). [Mineral<br>wool fiber]                            |
|            | titanium dioxide                                    |      |   | TWA: 10 mg/m <sup>3</sup> 8 hours. Form: fibers<br><b>Ministry of Employment and Labor</b><br><b>(Republic of Korea, 1/2020).</b><br>TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust<br>with less than 1% of free SiO2                |
|            | Recommended<br>monitoring procedures                | :    | Reference should be made to appropria<br>national guidance documents for metho<br>substances will also be required.   | ate monitoring standards. Reference to ods for the determination of hazardous   |
| 3.         | 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. |   |
|            | Environmental<br>exposure controls                  | :    |   |   |
| <b>)</b> . | Personal protective equip                           | me   | ent   |   |
|            | Respiratory protection                              |      | hazards of the product and the safe we<br>workers are exposed to concentrations<br>appropriate, certified respirators. Use<br>respirator complying with an approved<br>necessary.                               | h known or anticipated exposure levels, the<br>orking limits of the selected respirator. If<br>a above the exposure limit, they must use<br>a properly fitted, air-purifying or air-fed<br>standard if a risk assessment indicates this i |
|            | Eye protection                                      |      | Chemical splash goggles.  |   |
|            | Hand protection                                     | :    | be worn at all times when handling che<br>this is necessary. Considering the par<br>check during use that the gloves are s<br>should be noted that the time to break  | ers. In the case of mixtures, consisting of   |
|            | Gloves  | 1    | butyl rubber  |   |
|            | Body protection                                     | :    |   | body should be selected based on the task<br>and should be approved by a specialist   |
|            | Hygiene measures                                    | :    | Wash hands, forearms and face thoro<br>eating, smoking and using the lavatory<br>Appropriate techniques should be used<br>Contaminated work clothing should no  | d to remove potentially contaminated clothing<br>t be allowed out of the workplace. Wash<br>Ensure that eyewash stations and safety   |

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### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

| Evaporation rate<br>Flammability (solid, gas)<br>Lower and upper<br>explosive (flammable)<br>limits<br>Vapor pressure | :  | Not available.  | e: Lower: 1.3% Upper: 13% (be<br>Vapor Pressure at 20°C  | enzyl alcohol)<br>Vapor pre  |
|---|--|---|--|--|
| Flammability (solid, gas)<br>Lower and upper<br>explosive (flammable)   | :  | Not available.  | e: Lower: 1.3% Upper: 13% (be  | enzyl alcohol)   |
|   |  |   |  |  |
| Evaporation rate  | ÷  | Not available.  |  |  |
|   |  | Not available.  |  |  |
| Flash point   | :  | Closed cup: Not appli   | icable.  |  |
| Boiling point/boiling range   | ÷  | >37.78°C (>100°F)   |  |  |
|   | - 1  |   |  |  |
| рН  | ÷  | Not applicable.   |  |  |
| Odor threshold  | 4  | Not available.  |  |  |
| Odor  | 4  | Characteristic.   |  |  |
| Color   | 4  | Not available.  |  |  |
| Physical state  | 1  | Liquid.   |  |  |
| Appearance  |  |   |  |  |
|   | Physical state<br>Color<br>Odor<br>Odor threshold<br>pH<br>Melting/freezing point<br>Boiling point/boiling<br>range<br>Flash point | Physical state:Color:Odor:Odor threshold:pH:Melting/freezing point:Boiling point/boiling:range:Flash point: | Physical state: Liquid.Color: Not available.Odor: Characteristic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range: Closed cup: Not applicable. | Physical state: Liquid.Color: Not available.Odor: Characteristic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range: |

|  |   | Ingredient name                         | mm Hg       | kPa       | Method | mm<br>Hg | kPa   | Method |
|--|---|---|-------------|-----------|--------|----------|-------|--------|
|  |   | 1,6-bis<br>(2,3-epoxypropoxy)<br>hexane | 0.067505535 | 0.009     |        |          |       |        |
| Solubility(ies)                            |   | Media                                   | Re          | sult      |        |          |       |        |
|  | 1 | cold water                              | No          | t soluble |        |          |       |        |
| Solubility in water                        | : | Not available.                          |             |           |        |          |       |        |
| Vapor density                              | : | Not available.                          |             |           |        |          |       |        |
| Relative density                           | : | 1.29                                    |             |           |        |          |       |        |
| Partition coefficient: n-<br>octanol/water | : | Not applicable.                         |             |           |        |          |       |        |
| Auto-ignition<br>temperature               | : |   |             |           |        |          |       |        |
|  |   | Ingredient name                         |             | °C        | °F     | M        | ethod |        |
|  |   | benzyl alcohol                          |             | 436       | 816.8  |          |       |        |
| Decomposition<br>temperature               | : | Not available.                          |             |           | I      | <u></u>  |       |        |

Q. temperature

L. Solubility(ies)

Μ.

Ν.

О.

Ρ.

- Viscosity R. Flow time (ISO 2431)
- Molecular weight S.
- : Kinematic (40°C (104°F)): >21 mm<sup>2</sup>/s (>21 cSt)
- : Not available.
- : Not applicable.

Vapor pressure at 50°C

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# Section 10. Stability and reactivity

| Α. | Chemical stability                  | : | The product is stable.   |
|----|-------------------------------------|---|--|
|    | Possibility of hazardous reactions  | : | Under normal conditions of storage and use, hazardous reactions will not occur.  |
| В. | Conditions to avoid                 | : | When exposed to high temperatures may produce hazardous decomposition products.  |
| C. | Incompatible materials              | : | Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
| D. | Hazardous<br>decomposition products | : | Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides          |

# Section 11. Toxicological information

| A. Information on th<br>routes of exposu | •  |
|--|--|
| Potential acute hea                      | Ith effects  |
| Inhalation                               | : Harmful if inhaled.  |
| Ingestion                                | : No known significant effects or critical hazards.  |
| Skin contact                             | : Causes skin irritation. May cause an allergic skin reaction.                             |
| Eye contact                              | : Causes serious eye irritation.   |
| Over-exposure sign                       | ns/symptoms  |
| Inhalation                               | : No specific data.  |
| Ingestion                                | : No specific data.  |
| Skin contact                             | : Adverse symptoms may include the following:<br>irritation<br>redness                     |
| Eye contact                              | : Adverse symptoms may include the following:<br>pain or irritation<br>watering<br>redness |

### B. Health hazards

#### Acute toxicity

| Product/ingredient name                 | Result                    | Species | Dose                    | Exposure |
|---|---------------------------|---------|-------------------------|----------|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane | LD50 Dermal               | Rabbit  | 23000 mg/kg             | -        |
|   | LD50 Oral                 | Rat     | 15000 mg/kg             | -        |
| benzyl alcohol                          | LC50 Inhalation Dusts and | Rat     | >4178 mg/m <sup>3</sup> | 4 hours  |
|   | mists                     |         |                         |          |
|   | LD50 Dermal               | Rabbit  | 2000 mg/kg              | -        |
|   | LD50 Oral                 | Rat     | 1.23 g/kg               | -        |
| titanium dioxide                        | LC50 Inhalation Dusts and | Rat     | >6.82 mg/l              | 4 hours  |
|   | mists                     |         | _                       |          |
|   | LD50 Dermal               | Rabbit  | >5000 mg/kg             | -        |
|   | LD50 Oral                 | Rat     | >5000 mg/kg             | -        |

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

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# Section 11. Toxicological information

### Irritation/Corrosion

| Product/ingredient name                     | Result                                | Species        | Score   | Exposure | Observation |
|---|---------------------------------------|----------------|---------|----------|-------------|
| bis-[4-(2,3-epoxipropoxi)phenyl]<br>propane | Eyes - Mild irritant                  | Rabbit         | -       | 24 hours | -           |
|   | Eyes - Redness of the<br>conjunctivae | Rabbit         | 0.4     | 24 hours | -           |
|   | Skin - Edema                          | Rabbit         | 0.5     | 4 hours  | -           |
|   | Skin - Erythema/Eschar                | Rabbit         | 0.8     | 4 hours  | -           |
|   | Skin - Mild irritant                  | Rabbit         | -       | 4 hours  | -           |
| Conclusion/Summary                          |                                       |                |         |          |             |
| Skin : T                                    | here are no data available o          | on the mixture | itself. |          |             |

Eyes Respiratory : There are no data available on the mixture itself. : There are no data available on the mixture itself.

**Sensitization** 

| Product/ingredient name                          | e Route of exposure                     | Species  | Result      |  |
|--|---|--|-------------|--|
| bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane      | skin                                    | Mouse  | Sensitizing |  |
| <u>Conclusion/Summary</u><br>Skin<br>Respiratory | • | a available on the mixture<br>a available on the mixture |             |  |
| <u>Mutagenicity</u><br>Conclusion/Summary        | : There are no dat                      | a available on the mixtur                                | e itself.   |  |
| <u>Carcinogenicity</u><br>Conclusion/Summary     | : There are no dat                      | ta available on the mixtu                                | e itself.   |  |
| Reproductive toxicity<br>Conclusion/Summary      | : There are no da                       | ta available on the mixtu                                | re itself.  |  |
| Teratogenicity                                   | . There are no do                       | te eveileble en the mixtu                                | ro itoolf   |  |

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

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

| Name                                     | Classification | Route of exposure | Target organs                   |
|--|----------------|-------------------|---------------------------------|
| Talc , not containing asbestiform fibres | Category 3     |                   | Respiratory tract<br>irritation |

Specific target organ toxicity (repeated exposure) Not available.

#### **Aspiration hazard**

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### Section 11. Toxicological information

| Name           | Result                         |
|----------------|--------------------------------|
| benzyl alcohol | ASPIRATION HAZARD - Category 2 |

#### Potential chronic health effects

| General               | : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
|-----------------------|---|
| Carcinogenicity       | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.              |
| Mutagenicity          | : No known significant effects or critical hazards.   |
| Reproductive toxicity | : No known significant effects or critical hazards.   |

### **Additional information**

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.

| Chemical name                            | Identifiers     | GHS Classification   |
|--|-----------------|--|
| bis-[4-(2,3-epoxipropoxi)phenyl]propane  | CAS: 1675-54-3  | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A |
|  |                 | SKIN SENSITIZATION - Category 1B                             |
|  |                 | AQUATIC HAZARD (LONG-TERM) - Category 2                      |
| Talc , not containing asbestiform fibres | CAS: 14807-96-6 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE                       |
|  |                 | EXPOSURE) (Respiratory tract irritation) -                   |
| 1.6 his/2.2 anovernments///hovens        | CAS: 16096-31-4 |  |
| 1,6-bis(2,3-epoxypropoxy)hexane          | CAS. 10090-31-4 | SKIN IRRITATION - Category 2<br>EYE IRRITATION - Category 2A |
|  |                 | SKIN SENSITIZATION - Category 1B                             |
|  |                 | AQUATIC HAZARD (LONG-TERM) - Category 3                      |
| benzyl alcohol                           | CAS: 100-51-6   | ACUTE TOXICITY (oral) - Category 4                           |
|  |                 | ACUTE TOXICITY (dermal) - Category 4                         |
|  |                 | ACUTE TOXICITY (inhalation) - Category 4                     |
|  |                 | EYE IRRITATION - Category 2A                                 |
|  |                 | ASPIRATION HAZARD - Category 2                               |
| glass, oxide, chemicals                  | CAS: 65997-17-3 | Not classified.  |
| titanium dioxide                         | CAS: 13463-67-7 | CARCINOGENICITY - Category 2                                 |

# Section 12. Ecological information

### A. <u>Ecotoxicity</u>

| Product/ingredient name                     | Result  | Species                                   | Exposure            |
|---|---|---|---------------------|
| bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane | Acute LC50 1.8 mg/l Fresh water                           | Daphnia - <i>daphnia magna</i>            | 48 hours            |
| titanium dioxide                            | Chronic NOEC 0.3 mg/l<br>Acute LC50 >100 mg/l Fresh water | Daphnia<br>Daphnia - <i>Daphnia magna</i> | 21 days<br>48 hours |

#### B. <u>Persistence and degradability</u>

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### Section 12. Ecological information

| Product/ingredient name                     | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane | -                 | -          | Not readily      |
| benzyl alcohol                              | -                 | -          | Readily          |

#### C. Bioaccumulative potential

| Product/ingredient name   | LogPow | BCF | Potential |
|---------------------------|--------|-----|-----------|
| 1,6-bis(2,3-epoxypropoxy) | 0.822  | -   | Low       |
| hexane<br>benzyl alcohol  | 0.87   | -   | Low       |

#### D. Mobility in soil

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

E. Other adverse effects : No known significant effects or critical hazards.

### Section 13. Disposal considerations

| Α. | Disposal methods | : | The generation of waste should be avoided or minimized wherever possible.<br>Disposal of this product, solutions and any by-products should at all times comply<br>with the requirements of environmental protection and waste disposal legislation and<br>any regional local authority requirements. Dispose of surplus and non-recyclable<br>products via a licensed waste disposal contractor. Waste should not be disposed of<br>untreated to the sewer unless fully compliant with the requirements of all authorities<br>with jurisdiction. Waste packaging should be recycled. Incineration or landfill<br>should only be considered when recycling is not feasible. |
|----|------------------|---|---|
|    |                  |   |   |

**B.** Disposal precautions : 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### Section 14. Transport information

|   | UN  | IMDG  | IATA  |  |
|---|---|---|---|--|
| A. UN number                                    | UN3082  | UN3082  | UN3082  |  |
| B. UN proper<br>shipping name                   | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. | ENVIRONMENTALLY<br>HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. |  |
|   | (bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane)             | (bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane)             | (bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane)             |  |
| C. Transport<br>hazard class(es)                | 9   | 9   | 9   |  |
| D. Packing groupIIIEnvironmental<br>hazardsYes. |   | III   | III   |  |
|   |   | Yes. Yes.   |   |  |
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| Product code       00476251       Date of issue       2/18/2024 (month/day/year)         Product name       SIGMASHIELD 905 BASE GREY 5163       2/18/2024 (month/day/year) |                 |   |                 |  |  |
|---|-----------------|---|-----------------|--|--|
| Section 14. Transport information   |                 |   |                 |  |  |
| E. Marine<br>pollutant<br>substances  | Not applicable. | (bis-[4-(2,3-epoxipropoxi)<br>phenyl]propane) | Not applicable. |  |  |

#### **Additional information**

| UN   | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
|------|---|
| IMDG | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. |
| ΙΑΤΑ | : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.      |

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

| Regulation according to ISHA   |  |  |  |  |
|--|--|--|--|--|
| ISHA article 117<br>(Harmful substances<br>prohibited from<br>manufacture)                           | :  | None of the components are listed.   |  |  |
| ISHA article 118<br>(Harmful substances<br>requiring permission)                                     | :  | None of the components are listed.   |  |  |
| Article 2 of Youth Protection<br>Act on Substances Hazardous<br>to Youth                             | :  | It is not allowed to sell to persons under the age of 19.  |  |  |
| Exposure Limits of Chemical Substances and Physical Factors  |  |  |  |  |
| <b>v</b> ,   |  |  |  |  |
| ISHA Enforcement Regs<br>Annex 19 (Exposure<br>standards established<br>for harmful factors)         | :  | None of the components are listed.   |  |  |
| ISHA Enforcement Regs<br>Annex 21 (Harmful<br>factors subject to Work<br>Environment<br>Measurement) | :  | The following components are listed: talc / soapstone, titanium dioxide  |  |  |
|  | ISHA article 117<br>(Harmful substances<br>prohibited from<br>manufacture)<br>ISHA article 118<br>(Harmful substances<br>requiring permission)<br>Article 2 of Youth Protection<br>Act on Substances Hazardous<br>to Youth<br>Exposure Limits of Chem<br>The following components<br>Talc , not containing asbe<br>glass, oxide, chemicals<br>titanium dioxide<br>ISHA Enforcement Regs<br>Annex 19 (Exposure<br>standards established<br>for harmful factors)<br>ISHA Enforcement Regs<br>Annex 21 (Harmful<br>factors subject to Work<br>Environment | ISHA article 117 :<br>(Harmful substances<br>prohibited from<br>manufacture)<br>ISHA article 118 :<br>(Harmful substances<br>requiring permission)<br>Article 2 of Youth Protection :<br>Act on Substances Hazardous<br>to Youth<br>Exposure Limits of Chemical<br>The following components ha<br>Talc , not containing asbestifi<br>glass, oxide, chemicals<br>titanium dioxide<br>ISHA Enforcement Regs :<br>Annex 19 (Exposure<br>standards established<br>for harmful factors)<br>ISHA Enforcement Regs :<br>Annex 21 (Harmful<br>factors subject to Work<br>Environment |  |  |

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### Section 15. Regulatory information

|  | ISHA Enforcement Regs<br>Annex 22 (Harmful<br>Factors Subject to<br>Special Health Check-<br>up)        | :               | The following components are listed: Glass fiber dusts  |
|--|---|-----------------|---|
|  | Standard of Industrial<br>Safety and Health<br>Annex 12 (Hazardous<br>substances subject to<br>control) | :               | The following components are listed: titanium dioxide   |
| В.   | Regulation according to   | Ch              | emicals Control Act   |
|  | Article 11 (TRI)  | :               | None of the components are listed.  |
|  | Article 18 Prohibited (K-<br>Reach Article 27)  | 1               | None of the components are listed.  |
|  | Article 19 Subject to<br>authorization (K-Reach<br>Article 25)  | -               | None of the components are listed.  |
|  | Article 20 Restricted (K-<br>Reach Article 27)  | 1               | None of the components are listed.  |
|  | Article 20 Toxic<br>Chemicals (K-Reach<br>Article 20)   | :               | Not applicable  |
|  | Korea inventory   | :               | All components are listed or exempted.  |
|  | Article 39 (Accident<br>Precaution Chemicals)   | 1               | None of the components are listed.  |
| C.   | Dangerous Materials<br>Safety Management Act  | :               | Not applicable.   |
| D.   | Wastes regulation   | :               | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| E. <u>Regulation according to other foreign laws</u> |   | er foreign laws |   |
|  | Safety, health and<br>environmental<br>regulations specific for<br>the product                          | :               | No known specific national and/or regional regulations applicable to this product (including its ingredients).    |
| Se   | ection 16. Other  | in              | formation   |

### A. References : Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System. B. Date of issue/Date of revision : 2/18/2024 : 2/18/2024 : EHS

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### Section 16. Other information

### D. Other

Indicates information that has changed from previously issued version.

### <u>Disclaimer</u>

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.