# SAFETY DATA SHEET



#### Date of issue 11/24/2024 (month/day/year)

Version 2.06

### Section 1. Chemical product and company identification

| Α. | Product name<br>Product code         |       | SIGMAPRIME 700 HSV BASE GREY<br>00442363   |
|----|--------------------------------------|-------|--|
| В. | Relevant identified uses of          | of tl | he substance or mixture and uses advised against   |
|    | Product use                          | 1     | Professional applications, Used by spraying.   |
|    | Use of the substance/<br>mixture     | :     | Coating.   |
|    | Uses advised against                 | 4     | Product is not intended, labelled or packaged for consumer use.  |
| C. | Supplier's or Importer's information | :     | 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 |
|    | Linai Address                        |       | Kolea.MODO@FFG.COM   |
|    | Emergency telephone<br>number:       | 1     | +82-52-210-8331  |

### Section 2. Hazards identification

| A. Hazard classification | : FLAMMABLE LIQUIDS - Category 3<br>SKIN IRRITATION - Category 2   |
|--------------------------|--|
|                          | EYE IRRITATION - Category 2A<br>SKIN SENSITIZATION - Category 1<br>CARCINOGENICITY - Category 1A                 |
|                          | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2<br>AQUATIC HAZARD (LONG-TERM) - Category 3       |
|                          | 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

: Danger

Date of issue <sup>11/24/2024</sup> (month/day/year)

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 2. Hazards identification

| Hazard statements               | : H226 - Flammable liquid and vapor.  |
|---------------------------------|---|
|                                 | H315 - Causes skin irritation.  |
|                                 | H317 - May cause an allergic skin reaction.   |
|                                 | H319 - Causes serious eye irritation.   |
|                                 | H350 - May cause cancer.  |
|                                 | H373 - May cause damage to organs through prolonged or repeated exposure.                             |
|                                 | (central nervous system (CNS), kidneys, liver)  |
|                                 | H412 - Harmful to aquatic life with long lasting effects.   |
| Precautionary statements        | )<br>)  |
| Prevention                      | : P202 - Do not handle until all safety precautions have been read and understood.                    |
|                                 | P280 - Wear protective gloves, protective clothing and eye or face protection.                        |
|                                 | P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
|                                 | P241 - Use explosion-proof electrical, ventilating or lighting equipment.                             |
|                                 | P241 - Use explosion-proof electrical, ventilating or lighting equipment.                             |
|                                 | P242 - Use non-sparking tools.  |
|                                 | P243 - Take action to prevent static discharges.  |
|                                 | P240 - Ground and bond container and receiving equipment.   |
|                                 | P273 - Avoid release to the environment.  |
|                                 | P260 - Do not breathe vapor.  |
|                                 | P264 - Wash thoroughly after handling.  |
| Response                        | : P370 + P378 - In case of fire: Never use water to extinguish.                                       |
|                                 | P308 + P313 - IF exposed or concerned: Get medical advice or attention.                               |
|                                 | P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated                      |
|                                 | clothing. Rinse skin with water or shower.  |
|                                 | P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.                     |
|                                 | P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.                     |
|                                 | Remove contact lenses, if present and easy to do. Continue rinsing.                                   |
|                                 | P337 + P313 - If eye irritation persists: Get medical advice or attention.                            |
|                                 | P321 - Specific treatment (see the label).  |
| Storage                         | : P403 + P235 - Store in a well-ventilated place. Keep cool.  |
| Disposal                        | : P501 - Dispose of contents and container in accordance with all local, regional,                    |
|                                 | national and international regulations.   |
| Other hazards which do          | : Prolonged or repeated contact may dry skin and cause irritation.                                    |
| not result in<br>classification |   |

## Section 3. Composition/information on ingredients

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

CAS number

#### : Not applicable.

| Chemical name   | Common name             | Identifiers     | %           |
|---|-------------------------|-----------------|-------------|
| crystalline silica, respirable powder (<10 microns)                   | QUARTZ (<10 microns)    | CAS: 14808-60-7 | 30 -<br><40 |
| ,   |                         | EC: 238-878-4   |             |
| Talc , not containing asbestiform fibres                              | Talc, non-asbestos form | CAS: 14807-96-6 | 10 -<20     |
| -   |                         | EC: 238-877-9   |             |
| 4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane | EPOXY RESIN             | CAS: 25068-38-6 | 10 -<20     |
|   |                         | EC: 500-033-5   |             |
|   |                         |                 |             |
|   |                         | Korea (GHS)     | Page: 2/16  |

### Section 3. Composition/information on ingredients

| Phenol, methylstyrenated  | Phenol, methylstyrenated                       | CAS: 68512-30-1<br>EC: 270-966-8 | 5 - <10  |
|---|--|----------------------------------|----------|
| Xylene  | XYLENES  | CAS: 1330-20-7                   | 1 - <5   |
|   |  | EC: 215-535-7                    |          |
| Epoxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE</td><td>CAS: 25036-25-3</td><td>1 - &lt;5</td></mw<=1100)<> | EPOXY RESIN (AVERAGE                           | CAS: 25036-25-3                  | 1 - <5   |
|   | MOLECULAR WEIGHT >700 - <1100)                 |                                  |          |
| dimethyl carbonate  | DIMETHYL CARBONATE                             | CAS: 616-38-6                    | 1 - <5   |
|   |  | EC: 210-478-4                    |          |
| Aluminium powder (stabilized)   | ALUMINUM POWDER                                | CAS: 7429-90-5                   | 1 - <5   |
|   |  | EC: 231-072-3                    |          |
| 1-methoxy-2-propanol  | PROPYLENE GLYCOL MONOMETHYL<br>ETHER           | CAS: 107-98-2                    | 1 - <5   |
|   |  | EC: 203-539-1                    |          |
| Solvent naphtha (petroleum), heavy arom.  | SOLVENT NAPHTHA (PETROLEUM),<br>HEAVY AROMATIC | CAS: 64742-94-5                  | 1 - <5   |
|   |  | EC: 265-198-5                    |          |
| titanium dioxide  | TITANIUM DIOXIDE                               | CAS: 13463-67-7                  | 1 - <5   |
|   |  | EC: 236-675-5                    |          |
| ethylbenzene  | ETHYLBENZENE                                   | CAS: 100-41-4                    | 0.1 - <1 |
|   |  | EC: 202-849-4                    |          |

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

| Α. | 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.   |
|----|----------------------------|---|---|
| В. | 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.  |
| 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.  |
| Ε. | 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. |

#### See toxicological information (Section 11)

Korea (GHS) Page: 3/16

Date of issue <sup>11/24/2024</sup> (month/day/year)

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 5. Fire-fighting measures

|    | •  |   | •   |
|----|--|---|---|
| Α. | Extinguishing media                        |   |   |
|    | Suitable extinguishing media               | : | Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.  |
|    | Unsuitable<br>extinguishing media          | : | Do not use water jet.   |
| В. | 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>halogenated compounds<br>metal oxide/oxides  |
| C. | Special equipment for 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.  |
| 1  |  |   |   |

### Section 6. Accidental release measures

| A. Personal precautions,<br>protective equipment and<br>emergency procedures | : | No action shall be taken involving any personal risk or without suitable training.<br>Evacuate surrounding areas. Keep unnecessary and unprotected personnel from<br>entering. Do not touch or walk through spilled material. Shut off all ignition sources.<br>No flares, smoking or flames in hazard area. Avoid breathing vapor or mist.<br>Provide adequate ventilation. Wear appropriate respirator when ventilation is<br>inadequate. Put on appropriate personal protective equipment. |
|--|---|---|
| B. Environmental   |   | Avoid dispersal of spilled material and runoff and contact with soil, waterways,  |

**B. Environmental precautions i** 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.

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

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

#### Section 6. Accidental release measures

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 noncombustible, 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 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. |
|----|----------------------------------|--|
|    |                                  |  |

B. Conditions for safe storage, including any 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

#### A. Occupational exposure limits

| Ingredient name                                     | Exposure limits                             |
|---|---|
| crystalline silica, respirable powder (<10 microns) | ISHA Article 42 (Republic of Korea,         |
|   | 1/2020)                                     |
|   | TWA 8 hours: 0.05 mg/m <sup>3</sup> . Form: |
|   | Respirable fraction.                        |
| Talc , not containing asbestiform fibres            | ISHA Article 42 (Republic of Korea,         |
| ·   | 1/2020)                                     |
|   | TWA 8 hours: 2 mg/m³ (as asbestos).         |
|   | Form: fibers.                               |
| Xylene  | ISHA Article 42 (Republic of Korea,         |
| ,   | 1/2020) [Xylene]                            |
|   | STEL 15 minutes: 150 ppm.                   |
|   | TWA 8 hours: 100 ppm.                       |
| Aluminium powder (stabilized)                       | ISHA Article 42 (Republic of Korea,         |
|   | Korea (GHS) Page: 5/1                       |

### Section 8. Exposure controls/personal protection

|    | 1-methoxy-2-propanol                 | 1/2020)<br>TWA 8 hours: 10 mg/m³. Form: D<br>ISHA Article 42 (Republic of Kord<br>1/2020)<br>STEL 15 minutes: 150 ppm.   |   |
|----|--------------------------------------|--|---|
|    | titanium dioxide                     | TWA 8 hours: 100 ppm.<br><b>ISHA Article 42 (Republic of Kord</b><br><b>1/2020)</b><br>TWA 8 hours: 10 mg/m <sup>3</sup> .   | ea,   |
|    | ethylbenzene                         | ISHA Article 42 (Republic of Kord<br>1/2020)<br>STEL 15 minutes: 125 ppm.<br>TWA 8 hours: 100 ppm.   | ea,   |
|    | Recommended<br>monitoring procedures | eference should be made to appropriate monitoring standards. Reference<br>ational guidance documents for methods for the determination of hazardo<br>ubstances will also be required.  |   |
|    | Appropriate engineering controls     | se only with adequate ventilation. Use process enclosures, local exhaust<br>entilation or other engineering controls to keep worker exposure to airborn<br>ontaminants below any recommended or statutory limits. The engineering<br>so need to keep gas, vapor or dust concentrations below any lower explo-<br>nits. Use explosion-proof ventilation equipment.  | ne<br>g controls                                      |
|    | Environmental<br>exposure controls   | missions from ventilation or work process equipment should be checked<br>ey comply with the requirements of environmental protection legislation.<br>ases, fume scrubbers, filters or engineering modifications to the process<br>quipment will be necessary to reduce emissions to acceptable levels.   |   |
| C. | Personal protective equip            | E Contraction of the second  |   |
|    | Respiratory protection               | Respirator selection must be based on known or anticipated exposure level<br>azards of the product and the safe working limits of the selected respirate<br>vorkers are exposed to concentrations above the exposure limit, they must<br>ppropriate, certified respirators. Use a properly fitted, air-purifying or air-<br>espirator complying with an approved standard if a risk assessment indicate<br>ecessary.   | or. If<br>st use<br>fed                               |
|    | Eye protection                       | chemical splash goggles.   |   |
|    | Hand protection                      | Chemical-resistant, impervious gloves complying with an approved standa<br>e worn at all times when handling chemical products if a risk assessmen-<br>nis is necessary. Considering the parameters specified by the glove man-<br>heck during use that the gloves are still retaining their protective propertie<br>hould be noted that the time to breakthrough for any glove material may lifferent for different glove manufacturers. In the case of mixtures, consist<br>everal substances, the protection time of the gloves cannot be accurately<br>stimated. | t indicates<br>ufacturer,<br>es. It<br>be<br>sting of |
|    | Gloves                               | utyl rubber  |   |
|    | Body protection                      | Personal protective equipment for the body should be selected based on t<br>eing performed and the risks involved and should be approved by a spec-<br>efore handling this product. When there is a risk of ignition from static el<br>pear anti-static protective clothing. For the greatest protection from static<br>ischarges, clothing should include anti-static overalls, boots and gloves.   | ialist<br>ectricity,                                  |

Product name SIGMAPRIME 700 HSV BASE GREY

#### Section 8. Exposure controls/personal protection

Hygiene measures
 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Section 9. Physical and chemical properties

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

| A. Appeara | nce |
|------------|-----|
|------------|-----|

В. С. D.

E. F.

G.

Н.

| Physical state              | : Liquid.                   |
|-----------------------------|-----------------------------|
| Color                       | : Not available.            |
| Odor                        | : Characteristic.           |
| Odor threshold              | : Not available.            |
| рН                          | : Not applicable.           |
| Melting/freezing point      | : Not available.            |
| Boiling point/boiling range | : >37.78°C (>100°F)         |
| Flash point                 | : Closed cup: 28°C (82.4°F) |
| Evaporation rate            | : Not available.            |
|                             |                             |

- I. Flammability (solid, gas) :
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure
- Vapor Pressure at 20°C Vapor pressure at 50°C mm Hg kPa Method kPa Method Ingredient name mm Hg dimethyl carbonate 7.6 56.78 **OECD 104** Media Result cold water Not soluble
- Solubility in water

Vapor density

L. Solubility(ies)

: Not available.

: Not applicable.

: Not available.

: Not available.

ŝ

t

÷.

- **Relative density** : 1.41
- O. Partition coefficient: n-
- O. octanol/water

Μ.

N.

P. Auto-ignition temperature

| Ingredient name                          | °C         | °F         | Method     |
|--|------------|------------|------------|
| Solvent naphtha (petroleum), heavy arom. | 220 to 250 | 428 to 482 | ASTM E 659 |

### Q. Decomposition temperature

Korea (GHS) Page: 7/16

|      | ÷ | Not available. |
|------|---|----------------|
| gas) | : | Not available. |
|      | ÷ | Not available. |

Date of issue <sup>11/24/2024</sup> (month/day/year)

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 9. Physical and chemical properties

| R. | Viscosity            | : Dynamic (room temperature): Not available.<br>Kinematic (room temperature): Not available.<br>Kinematic (40°C (104°F)): >21 mm²/s (>21 cS | St) |
|----|----------------------|---|-----|
|    | Flow time (ISO 2431) | : Not available.  |     |
| S. | Molecular weight     | : Not applicable.   |     |

### 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 sulfur oxides halogenated compounds metal oxide/ oxides |

### Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

#### Potential acute health effects

| Inhalation                | : No known significant effects or critical hazards.                                   |
|---------------------------|---|
| Ingestion                 | : No known significant effects or critical hazards.                                   |
| Skin contact              | : Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Eye contact               | : Causes serious eye irritation.  |
| <u>Over-exposure sign</u> | <u>s/symptoms</u>   |
| 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: pain or irritation watering redness

dryness

#### B. Health hazards

**Acute toxicity** 

### Section 11. Toxicological information

| Product/ingredient name   | Result                    | Species | Dose                     | Exposure |
|---|---------------------------|---------|--------------------------|----------|
| 4,4'-(1-methylethylidene)bisphenol  | LD50 Dermal               | Rabbit  | >2 g/kg                  | -        |
| polymer with (chloromethyl)oxirane  |                           |         | 0.0                      |          |
|   | LD50 Oral                 | Rat     | >2 g/kg                  | -        |
| Phenol, methylstyrenated  | LD50 Dermal               | Rabbit  | >2000 mg/kg              | -        |
|   | LD50 Oral                 | Rat     | >2000 mg/kg              | -        |
| Xylene  | LD50 Dermal               | Rabbit  | 1.7 g/kg                 | -        |
|   | LD50 Oral                 | Rat     | 4.3 g/kg                 | -        |
| Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>&gt;2000 mg/kg</td><td>-</td></mw<=1100)<> | LD50 Dermal               | Rat     | >2000 mg/kg              | -        |
|   | LD50 Oral                 | Rat     | >2000 mg/kg              | -        |
| dimethyl carbonate  | LC50 Inhalation Vapor     | Rat     | 140000 mg/m <sup>3</sup> | 4 hours  |
| ,   | LD50 Dermal               | Rabbit  | 2.5 g/kg                 | -        |
|   | LD50 Oral                 | Rat     | 12.9 g/kg                | -        |
| Aluminium powder (stabilized)   | LC50 Inhalation Dusts and | Rat     | >5 mg/l                  | 4 hours  |
|   | mists                     |         | J J                      |          |
|   | LD50 Oral                 | Rat     | >15900 mg/kg             | -        |
| 1-methoxy-2-propanol  | LC50 Inhalation Vapor     | Rat     | >7000 ppm                | 6 hours  |
| , , ,   | LD50 Dermal               | Rabbit  | 13 g/kg                  | -        |
|   | LD50 Oral                 | Rat     | 5.2 g/kg                 | -        |
| Solvent naphtha (petroleum), heavy  | LC50 Inhalation Dusts and | Rat     | >5.2 mg/l                | 4 hours  |
| arom.   | mists                     |         | Ŭ                        |          |
|   | LD50 Oral                 | Rat     | >5 g/kg                  | -        |
| titanium dioxide  | LC50 Inhalation Dusts and | Rat     | >6.82 mg/l               | 4 hours  |
|   | mists                     |         | Ŭ                        |          |
|   | LD50 Dermal               | Rabbit  | >5000 mg/kg              | -        |
|   | LD50 Oral                 | Rat     | >5000 mg/kg              | -        |
| ethylbenzene  | LC50 Inhalation Vapor     | Rat     | 17.8 mg/l                | 4 hours  |
| 2   | LD50 Dermal               | Rabbit  | 17.8 g/kg                | -        |
|   | LD50 Oral                 | Rat     | 3.5 g/kg                 | -        |

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

#### Irritation/Corrosion

| Product/ingredient name  | Result                   | Species | Score | Exposure           | Observation |
|--|--------------------------|---------|-------|--------------------|-------------|
| 4,4'-(1-methylethylidene)<br>bisphenol polymer with<br>(chloromethyl)oxirane | Eyes - Mild irritant     | Rabbit  | -     | 100 mg             | -           |
|  | Eyes - Moderate irritant | Rabbit  | -     | -                  | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | -                  | -           |
|  | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>UI | -           |
|  | Skin - Severe irritant   | Rabbit  | -     | 24 hours 2<br>mg   | -           |
| Xylene   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500<br>mg | -           |

Conclusion/Summary

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**

Date of issue <sup>11/24/2024</sup> (month/day/year)

Version 2.06

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 11. Toxicological information

| Product/ingredient name  | Route of exposure | Species                          | Result      |  |
|--|-------------------|----------------------------------|-------------|--|
| 4,4'-(1-methylethylidene)<br>bisphenol polymer with<br>(chloromethyl)oxirane | skin              | Mouse                            | Sensitizing |  |
| Conclusion/Summary   |                   |                                  |             |  |
| Skin :   | There are no dat  | a available on the mixture itse  | elf.        |  |
| Respiratory :  | There are no dat  | a available on the mixture itse  | elf.        |  |
| Conclusion/Summary :   | There are no da   | ta available on the mixture itse | elf.        |  |
| Carcinogenicity  | There are no da   |                                  | 511.        |  |
| Conclusion/Summary :   | There are no da   | ata available on the mixture its | elf.        |  |
| Reproductive toxicity  |                   |                                  |             |  |
| Conclusion/Summary :   | There are no da   | ata available on the mixture its | self.       |  |
| Teratogenicity   |                   |                                  |             |  |
| Conclusion/Summary :   | There are no da   | ata available on the mixture its | self.       |  |

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

| Name   | Classification           | Route of exposure | Target organs                        |
|--|--------------------------|-------------------|--------------------------------------|
| Talc , not containing asbestiform fibres                         | Category 3               | -                 | Respiratory tract irritation         |
| Xylene   | Category 3               | -                 | Narcotic effects                     |
| dimethyl carbonate   | Category 3               | -                 | Respiratory tract<br>irritation      |
| 1-methoxy-2-propanol<br>Solvent naphtha (petroleum), heavy arom. | Category 3<br>Category 3 | -                 | Narcotic effects<br>Narcotic effects |

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

| Name   | Classification | Route of exposure | Target organs                                      |
|--------|----------------|-------------------|--|
| Xylene | Category 1     |                   | central nervous<br>system (CNS),<br>kidneys, liver |

#### **Aspiration hazard**

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

#### Potential chronic health effects

### Section 11. Toxicological information

| General               | : May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
|-----------------------|---|
| Carcinogenicity       | : May cause 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**

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.

| Chemical name   | Identifiers     | GHS Classification   |
|---|-----------------|--|
| crystalline silica, respirable powder (<10 microns)   | CAS: 14808-60-7 | CARCINOGENICITY - Category 1A  |
|   | EC: 238-878-4   |  |
| Talc , not containing asbestiform fibres  | CAS: 14807-96-6 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE<br>EXPOSURE) (Respiratory tract irritation) -<br>Category 3 |
|   | EC: 238-877-9   |  |
| 4,4'-(1-methylethylidene)bisphenol polymer with (chloromethyl)oxirane   | CAS: 25068-38-6 | SKIN IRRITATION - Category 2   |
|   | EC: 500-033-5   | EYE IRRITATION - Category 2A   |
|   |                 | SKIN SENSITIZATION - Category 1  |
|   |                 | AQUATIC HAZARD (LONG-TERM) - Category 2  |
| Phenol, methylstyrenated  | CAS: 68512-30-1 | SKIN IRRITATION - Category 2   |
|   | EC: 270-966-8   | SKIN SENSITIZATION - Čategory 1B   |
|   |                 | AQUATIC HAZARD (LONG-TERM) - Category 3  |
| Xylene  | CAS: 1330-20-7  | FLAMMABLE LIQUIDS - Category 3   |
| ,   | EC: 215-535-7   | ACUTE TOXICITY (dermal) - Category 4   |
|   |                 | ACUTE TOXICITY (inhalation) - Category 4   |
|   |                 | SKIN IRRITATION - Category 2   |
|   |                 | EYE IRRITATION - Category 2A   |
|   |                 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE   |
|   |                 | EXPOSURE) (Narcotic effects) - Category 3  |
|   |                 | SPECIFIC TARGET ORGAN TOXICITY   |
|   |                 | (REPEATED EXPOSURE) - Category 1   |
| Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>SKIN IRRITATION - Category 2</td></mw<=1100)<> | CAS: 25036-25-3 | SKIN IRRITATION - Category 2   |
|   |                 | EYE IRRITATION - Category 2A   |
|   |                 | SKIN SENSITIZATION - Category 1B   |
| dimethyl carbonate  | CAS: 616-38-6   | FLAMMABLE LIQUIDS - Category 2   |
|   | EC: 210-478-4   | EYE IRRITATION - Category 2A   |
|   |                 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE   |
|   |                 | EXPOSURE) (Respiratory tract irritation) -   |
|   |                 | Category 3   |
| Aluminium powder (stabilized)   | CAS: 7429-90-5  | FLAMMABLE SOLIDS - Category 1  |
|   | EC: 231-072-3   | SUBSTANCES AND MIXTURES, WHICH IN  |
|   |                 | CONTACT WITH WATER, EMIT FLAMMABLE   |
|   | 0.407.00.0      | GASES - Category 2   |
| 1-methoxy-2-propanol  | CAS: 107-98-2   | FLAMMABLE LIQUIDS - Category 3   |
|   | EC: 203-539-1   | SPECIFIC TARGET ORGAN TOXICITY (SINGLE   |
|   |                 | Korea (GHS) Page: 11/16  |

Date of issue <sup>11/24/2024</sup> (month/day/year)

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 11. Toxicological information

| Solvent naphtha (petroleum), heavy<br>arom. | CAS: 64742-94-5                  | EXPOSURE) (Narcotic effects) - Category 3<br>FLAMMABLE LIQUIDS - Category 4   |
|---|----------------------------------|---|
|   | EC: 265-198-5                    | SPECIFIC TARGET ORGAN TOXICITY (SINGLE<br>EXPOSURE) (Narcotic effects) - Category 3<br>ASPIRATION HAZARD - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 2                        |
| titanium dioxide                            | CAS: 13463-67-7<br>EC: 236-675-5 | CARCINOGENICITY - Category 2  |
| ethylbenzene                                | CAS: 100-41-4<br>EC: 202-849-4   | FLAMMABLE LIQUIDS - Category 2<br>ACUTE TOXICITY (inhalation) - Category 4<br>CARCINOGENICITY - Category 2<br>ASPIRATION HAZARD - Category 1<br>AQUATIC HAZARD (LONG-TERM) - Category 3 |

### Section 12. Ecological information

#### A. Ecotoxicity

| Product/ingredient name  | Result                            | Species                        | Exposure |
|--|-----------------------------------|--------------------------------|----------|
| 4,4'-(1-methylethylidene)<br>bisphenol polymer with<br>(chloromethyl)oxirane | Chronic NOEC 0.3 mg/l             | Daphnia                        | 21 days  |
| dimethyl carbonate   | Acute LC50 >100 mg/l              | Fish                           | 96 hours |
| 1-methoxy-2-propanol   | Acute LC50 23300 mg/l             | Daphnia                        | 48 hours |
|  | Acute LC50 >4500 mg/l Fresh water | Fish                           | 96 hours |
| Solvent naphtha<br>(petroleum), heavy arom.                                  | NOEL 0.48 mg/l Fresh water        | Daphnia                        | 21 days  |
| titanium dioxide   | Acute LC50 >100 mg/l Fresh water  | Daphnia - <i>Daphnia magna</i> | 48 hours |
| ethylbenzene   | Acute EC50 1.8 mg/l Fresh water   | Daphnia                        | 48 hours |
| -  | Chronic NOEC 1 mg/l Fresh water   | Daphnia - Ceriodaphnia dubia   | -        |

#### B. Persistence and degradability

| Product/ingredient name  | Test              | Result                   |                        | Dose |                               | Inoculum   |
|--|-------------------|--------------------------|------------------------|------|-------------------------------|------------|
| 4,4'-(1-methylethylidene)<br>bisphenol polymer with<br>(chloromethyl)oxirane<br>ethylbenzene           | OECD 301F         | 5 % - 28 d<br>79 % - Rea | ays<br>adily - 10 days | -    |                               | -          |
| Product/ingredient name  | Aquatic half-life |                          | Photolysis             |      | Biodeg                        | radability |
| 4,4'-(1-methylethylidene)<br>bisphenol polymer with<br>(chloromethyl)oxirane<br>Xylene<br>ethylbenzene | -                 |                          | -                      |      | Not rea<br>Readily<br>Readily |            |

#### C. Bioaccumulative potential

Version 2.06

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 12. Ecological information

| Product/ingredient name  | LogPow       | BCF         | Potential |
|--|--------------|-------------|-----------|
| 4,4'-(1-methylethylidene)<br>bisphenol polymer with<br>(chloromethyl)oxirane | 2.64 to 3.78 | 31          | Low       |
| Phenol, methylstyrenated   | 3.627        | -           | Low       |
| Xylene   | 3.12         | 7.4 to 18.5 | Low       |
| dimethyl carbonate   | 0.354        | -           | Low       |
| 1-methoxy-2-propanol   | <1           | -           | Low       |
| Solvent naphtha  | 2.8 to 6.5   | -           | High      |
| (petroleum), heavy arom.   |              |             | -         |
| ethylbenzene   | 3.6          | 79.43       | Low       |

#### D. Mobility in soil

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

E. <u>Other adverse effects</u> : 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. |
|----|----------------------|---|---|
| В. | 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. 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                    |  |
|----------------------------------|--------|-------------|-------------------------|--|
| A. UN number                     | UN1263 | UN1263      | UN1263                  |  |
| B. UN proper<br>shipping name    | PAINT  | PAINT PAINT |                         |  |
| C. Transport<br>hazard class(es) | 3      | 3           | 3                       |  |
| D. Packing group                 | III    | III         |                         |  |
| Environmental<br>hazards         | No.    | No.         | No.                     |  |
|                                  |        |             | Korea (GHS) Page: 13/16 |  |

| Product code 0044                    |                                   | Date of issue <sup>11/24/2024</sup> (month/o | day/year) Version 2.06 |  |  |  |
|--------------------------------------|-----------------------------------|--|------------------------|--|--|--|
| Product name SIGN                    | IAPRIME 700 HSV BASE GR           | KE Y   |                        |  |  |  |
| Section 14. 1                        | Section 14. Transport information |  |                        |  |  |  |
| E. Marine<br>pollutant<br>substances | Not applicable.                   | Not applicable.                              | Not applicable.        |  |  |  |
| Additional information               |                                   |  |                        |  |  |  |

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

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

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

#### A. Regulation according to ISHA **ISHA article 117** : None of the components are listed. (Harmful substances prohibited from manufacture) **ISHA** article 118 : None of the components are listed. (Harmful substances requiring permission) **Article 2 of Youth Protection** : It is not allowed to sell to persons under the age of 19. Act on Substances Hazardous to Youth Exposure Limits of Chemical Substances and Physical Factors The following components have an OEL: **ISHA Enforcement Regs** : None of the components are listed. **Annex 19 (Exposure** standards established for harmful factors) **ISHA Enforcement Regs** : The following components are listed: quartz, talc / soapstone, xylene, aluminum and Annex 11-5 (Harmful its compounds, titanium dioxide factors subject to Work **Environment Measurement**) **ISHA Enforcement Regs** : The following components are listed: Xylene, Aluminum and its compounds Annex 22 (Harmful **Factors Subject to Special Health Check**up)

Date of issue <sup>11/24/2024</sup> (month/day/year)

Product name SIGMAPRIME 700 HSV BASE GREY

### Section 15. Regulatory information

|    | Standard of Industrial<br>Safety and Health<br>Annex 12 (Hazardous<br>substances subject to<br>control) | :   | The following components are listed: xylene, aluminum and its compounds, titanium dioxide   |
|----|---|-----|---|
| В. | Regulation according to C   | Che | micals Control Act  |
|    | Article 11 (TRI)  | :   | The following components are listed: 4,4'-(1-Methylethylidene) bisphenol polymer with (chloromethyl)oxirane, Barium and its compounds, Xylene including o-,m-,p-isomer, Aluminium and its compounds, Ethylbenzene |
|    | Article 18 Prohibited (K-<br>Reach Article 27)  | :   | 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)  | :   | 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)   | :   | None of the components are listed.  |
| C. | Dangerous Materials<br>Safety Management Act  | :   | Class: Class 4 - Flammable Liquid<br>Item: 4. Class 2 petroleums - Water-insoluble liquid<br>Threshold: 1000 L<br>Danger category: III<br>Signal word: Contact with sources of ignition prohibited                |
| D. | Wastes regulation   | :   | Dispose of contents and container in accordance with all local, regional, national and international regulations.   |
| Е. | Regulation according to c   | oth | e <u>r foreign laws</u>   |
|    | 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).  |

### Section 16. Other information

| Α. | References                     | <ul> <li>Korean Ministry of Environment; Chemical Control Act<br/>Korean Ministry of Labor; Industrial Safety and Health Act<br/>NIER Notice<br/>Registry of Toxic Effects of Chemical Substances (RTECS)<br/>U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information<br/>Retrieval) ECOTOX Database System.</li> </ul> |
|----|--------------------------------|--|
| В. | First issue date               | : 11/25/2020   |
| С. | Date of issue/Date of revision | : 11/24/2024   |
| D. | Version                        | : 2.06   |
|    | Prepared by                    | : EHS  |

### Section 16. Other information

#### E. 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.