SAFETY DATA SHEET



Date of issue 9/26/2024 (month/day/year)

Version 2.01

Section 1. Chemical product and company identification

A. Product name
Product code: SIGMASHIELD 1200 BASE WHITE
00445396

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

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

Section 2. Hazards identification

| Α. | Hazard classification | : SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A | | | |
|----|-----------------------|----------------------------------------------------------------|------------|------|--|
| | | SKIN SENSITIZATION - Category 1 | | | |
| | | CARCINOGENICITY - Category 1A | | | |
| | | AQUATIC HAZARD (LONG-TERM) - Category 2 | | | |
| | | | <u>.</u> . | | |

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: DangerHazard statements: H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.

- H350 May cause cancer.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Section 2. Hazards identification

| | 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. P273 - Avoid release to the environment. P261 - Avoid breathing vapor. P264 - Wash thoroughly after handling. |
|----|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Response | P391 - Collect spillage. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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. |
| | Storage | : Not applicable. |
| | Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
|). | Other hazards which do | : None known. |

not result in classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

С

: Not applicable.

| Chemical name | Common name | Identifiers | % |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------|------------------------------|
| sphenol F diglycidyl ether, isomer mixture | bisphenol F diglycidyl ether, isomer mixture | CAS: SUB140549 | 40 - <50 |
| aluminium oxide | ALUMINUM OXIDE | CAS: 1344-28-1 | 20 - <30 |
| benzyl alcohol Phenol, polymer with formaldehyde, glycidyl ether | BENZYL ALCOHOL phenol, polymer with formaldehyde, glycidyl ether | CAS: 100-51-6 CAS: 28064-14-4 | 5 - <10 5 - <10 |
| Talc , not containing asbestiform fibres titanium dioxide crystalline silica, respirable powder (>10 microns) | Talc, non-asbestos form TITANIUM DIOXIDE QUARTZ (>10 microns) | CAS: 14807-96-6 CAS: 13463-67-7 CAS: 14808-60-7 | 1 - <5 1 - <5 0.1 - <1 |

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. 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 | 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)

Section 5. Fire-fighting measures

| | Ŭ | | 0 |
|----|--------------------------------------------|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Α. | Extinguishing media | | |
| | Suitable extinguishing media | 1 | Use an extinguishing agent suitable for the surrounding fire. |
| | Unsuitable extinguishing media | : | None known. |
| В. | Specific hazards arising from the chemical | : | In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. |
| | Hazardous thermal decomposition products | : | Decomposition products may include the following materials: carbon oxides 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. |

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. |
|------------------------------------------------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B. Environmental precautions | : | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage. |
| C. Methods and materials for | СС | intainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. 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. 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 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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 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 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

| | Ingredient name | | Exposure limits |
|----|--------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | aluminium oxide | | Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2 |
| | Talc , not containing asbes | form fibr | |
| | titanium dioxide | | Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2 |
| | crystalline silica, respirable | owder (| |
| | Recommended monitoring procedures | nation | nce should be made to appropriate monitoring standards. Reference to I guidance documents for methods for the determination of hazardous nces will also be required. |
| в. | Appropriate engineering controls | local e | operations generate dust, fumes, gas, vapor or mist, use process enclosures, chaust ventilation or other engineering controls to keep worker exposure to e contaminants below any recommended or statutory limits. |
| | Environmental exposure controls | they c cases | ons from ventilation or work process equipment should be checked to ensure mply with the requirements of environmental protection legislation. In some fume scrubbers, filters or engineering modifications to the process ent will be necessary to reduce emissions to acceptable levels. |
| c. | Personal protective equip | nent | |
| | Respiratory protection | : Resp hazar worke appro | ator selection must be based on known or anticipated exposure levels, the s of the product and the safe working limits of the selected respirator. If s are exposed to concentrations above the exposure limit, they must use oriate, certified respirators. Use a properly fitted, air-purifying or air-fed tor complying with an approved standard if a risk assessment indicates this is sary. |
| | Eye protection | : Chen | cal splash goggles. |
| | Hand protection | be wo this is check shoul differ sever estim | |
| | Gloves | : butyl | ubber |
| | Body protection | being | nal protective equipment for the body should be selected based on the task performed and the risks involved and should be approved by a specialist handling this product. |

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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. Appearance

| | Physical state | : | Liquid. |
|----|----------------|---|----------------|
| | Color | : | White. |
| В. | Odor | : | Aromatic. |
| С. | Odor threshold | | Not available. |

- C. Odor threshold
- D. pH
- : Not applicable. E. Melting/freezing point : Not available.
- F. Boiling point/boiling : >37.78°C (>100°F)
- range

H. Evaporation rate

- G. Flash point
- : Closed cup: 100°C (212°F) : Not available.
- Flammability (solid, gas) : Not available. I. –
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure
- ż Vapor Pressure at 20°C Vapor pressure at 50°C Method kPa Method **Ingredient name** mm Hg kPa mm Hg benzyl alcohol 0.05 0.0067 Result Media ÷ cold water Not soluble Not available. Not available. 1.59 : Not applicable. ÷.

: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)

L. Solubility(ies)

Solubility in water

- Vapor density Μ.
- **Relative density**
- Ν. Partition coefficient: n-О. octanol/water
- **Auto-ignition** Ρ. temperature

| Ingredient name | °C | °F | Method |
|-----------------|-----|-------|--------|
| benzyl alcohol | 436 | 816.8 | |

- **Decomposition** Q. temperature Viscosity
- : Not available.
- : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

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Section 9. Physical and chemical properties

R. 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 decomposition products | : | Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides |

Section 11. Toxicological information

| Α. | Information on the likely | : Not available. |
|----|---------------------------|------------------|
| | routes of exposure | |

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. May cause an allergic skin reaction. |
| Eye contact | : Causes serious eye irritation. |

Over-exposure signs/symptoms

| Inhalation Ingestion | No specific data.No specific data. |
|-------------------------|--------------------------------------------------------------------------------------------|
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |



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Section 11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|----------------------------------------------|---------------------------------|-----------------------|--------------|----------|
| bisphenol F diglycidyl ether, isomer mixture | LD50 Dermal | Rat - Male, Female | >2000 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | >2000 mg/kg | - |
| aluminium oxide | LC50 Inhalation Dusts and mists | Rat | 7.6 mg/l | 4 hours |
| | LD50 Oral | Rat | >15900 mg/kg | - |
| benzyl alcohol | LC50 Inhalation Dusts and mists | Rat | >4178 mg/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Rat | 1.23 g/kg | - |
| titanium dioxide | LC50 Inhalation Dusts and mists | Rat | >6.82 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

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

Teratogenicity

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 irritation |

Specific target organ toxicity (repeated exposure)

Not available.

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Section 11. Toxicological information

Aspiration hazard

| 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 | : 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

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.

| Chemical name | Identifiers | GHS Classification |
|--------------------------------------------------------|-----------------|--------------------------------------------|
| sphenol F diglycidyl ether, isomer mixture | CAS: SUB140549 | SKIN IRRITATION - Category 2 |
| | | EYE IRRITATION - Category 2B |
| | | SKIN SENSITIZATION - Category 1 |
| | 0.00 4044 00 4 | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| aluminium oxide | CAS: 1344-28-1 | Not classified. |
| 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 |
| Phenol, polymer with formaldehyde, glycidyl ether | CAS: 28064-14-4 | AQUATIC HAZARD (LONG-TĚRM) - Category 4 |
| Talc , not containing asbestiform fibres | CAS: 14807-96-6 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE |
| | | EXPOSURE) (Respiratory tract irritation) - |
| | | Category 3 |
| titanium dioxide | CAS: 13463-67-7 | CARCINOGENICITY - Category 2 |
| crystalline silica, respirable powder (>10 microns) | CAS: 14808-60-7 | CARCINOGENICITY - Category 1A |

Section 12. Ecological information

A. <u>Ecotoxicity</u>

| Product/ingredient name | Result | Species | Exposure |
|----------------------------------------------|----------------------------------|--------------------------------|----------|
| bisphenol F diglycidyl ether, isomer mixture | EC50 >1.8 mg/l | Algae | 72 hours |
| | EC50 >1000 mg/l | Daphnia | 48 hours |
| | LC50 2.54 mg/l | Fish | 96 hours |
| | NOEC 0.3 mg/l | Daphnia | 21 days |
| aluminium oxide | Acute LC50 >100 mg/l | Fish | 96 hours |
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |

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Section 12. Ecological information

B. Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|-------------------------------------------------------------------|-------------------|-------------|------------------|------|--------------------|------------|
| bisphenol F diglycidyl ether, isomer mixture | - | 0 % - Not r | eadily - 28 days | - | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodeg | radability |
| bisphenol F diglycidyl ether, isomer mixture benzyl alcohol | - | | - | | Not rea Readily | 5 |

C. Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|----------------------------------------------|--------|-----|-----------|
| bisphenol F diglycidyl ether, isomer mixture | 3.6 | - | Low |
| benzyl alcohol | 0.87 | - | Low |

D. <u>Mobility in soil</u>

Soil/water partition : Not available. coefficient (K_{oc})

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

Section 13. Disposal considerations

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

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 shipping name | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F diglycidyl ether, isomer mixture) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F diglycidyl ether, isomer mixture) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bisphenol F diglycidyl ether, isomer mixture) | |
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Section 14. Transport information

| | • | | | |
|--------------------------------------|-----------------|---------------------------------------------------|-----------------|--|
| C. Transport hazard class(es) | 9 | 9 | 9 | |
| D. Packing group | III | III | | |
| Environmental hazards | Yes. | Yes. | Yes. | |
| E. Marine pollutant substances | Not applicable. | (bisphenol F diglycidyl ether, isomer mixture) | 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

A. Regulation according to ISHA ISHA article 117 : None of the components are listed. (Harmful substances prohibited from manufacture) ISHA article 118 ISHA article 118 (Harmful substances requiring permission) Article 2 of Youth Protection Act on Substances Hazardous to Youth Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL: aluminium oxide Talc , not containing asbestiform fibres titanium dioxide crystalline silica, respirable powder (>10 microns) ISHA Enforcement Regs : None of the components are listed. Annex 19 (Exposure

standards established for harmful factors)

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Section 15. Regulatory information

| ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement) | : | The following components are listed: aluminum and its compounds, talc / soapstone, titanium dioxide | | | |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up) | : | The following components are listed: Aluminum and its compounds | | | |
| Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control) | : | The following components are listed: aluminum and its compounds, titanium dioxide | | | |
| B. <u>Regulation according to C</u> | Regulation according to Chemicals Control Act | | | | |
| Article 11 (TRI) | 1 | The following components are listed: Aluminium and its compounds | | | |
| Article 18 Prohibited (K- Reach Article 27) | : | None of the components are listed. | | | |
| Article 19 Subject to authorization (K-Reach Article 25) | : | None of the components are listed. | | | |
| Article 20 Restricted (K- Reach Article 27) | : | None of the components are listed. | | | |
| Article 20 Toxic Chemicals (K-Reach Article 20) | : | Not applicable | | | |
| Korea inventory | 1 | All components are listed or exempted. | | | |
| Article 39 (Accident Precaution Chemicals) | : | None of the components are listed. | | | |
| C. <u>Dangerous Materials</u> <u>Safety Management Act</u> | : | Class: Class 4 - Flammable Liquid Item: 5. Class 3 petroleums - Water-insoluble liquid Threshold: 2000 L Danger category: III 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. | | | |
| E. <u>Regulation according to c</u> | Regulation according to other foreign laws | | | | |
| Safety, health and environmental regulations specific for the product | : | No known specific national and/or regional regulations applicable to this product (including its ingredients). | | | |

Section 16. Other information

| A. I | 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. I | First issue date | : | 7/15/2021 |
| | Date of issue/Date of revision | : | 9/26/2024 |
| D. \ | Version | : | 2.01 |
| | Prepared by | 1 | EHS |

E. Other

V Indicates information that has changed from previously issued version.

Disclaimer

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.