SAFETY DATA SHEET



(month/day/year) **Date of issue** 4/23/2024

Version 1.01

Section 1. Chemical product and company identification

: SIGMADUR 550 BASE RAL 1003 A. Product name **Product code** : 000001089560

Other means of identification 00240964

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

| Pi | roduct use | : | Professional applications, Used by spraying. |
|----|-------------------------------------|---|------------------------------------------------------------------------------------------------------|
| | se of the substance/ ixture | : | Coating. |
| U | ses advised against | : | Product is not intended, labelled or packaged for consumer use. |
| | Supplier's or Importer's nformation | : | PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 |
| E | mail Address | | Korea.MSDS@PPG.COM |
| | mergency telephone umber: | 1 | +82-52-210-8331 |

Section 2. Hazards identification

| A. Hazard classification | : FLAMMABLE LIQUIDS - Category 3 |
|--------------------------|-----------------------------------------------------------------------|
| | SKIN IRRITATION - Category 2 |
| | EYE IRRITATION - Category 2A |
| | CARCINOGENICITY - Category 1A |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - |
| | Category 3 |
| | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| | 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



Date of issue 4/23/2024 (month/day/year)

Product name SIGMADUR 550 BASE RAL 1003

Section 2. Hazards identification

| Hazard statements | H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H350 - May cause cancer. H372 - Causes 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 | |
| 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. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling. |
| Response | P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. 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 | : P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool. |
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| C. Other hazards which do not result in classification | : Prolonged or repeated contact may dry skin and cause irritation. |

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

| Chemical name | Common name | Identifiers | % |
|-----------------------------------------------------|---------------------------------------|-----------------|-------------|
| Xylene | XYLENES | CAS: 1330-20-7 | 20 - <30 |
| n-butyl acetate | N-BUTYL ACETATE | CAS: 123-86-4 | 5 - <10 |
| ethylbenzene | ETHYLBENZENE | CAS: 100-41-4 | 1 - <5 |
| Talc, not containing asbestiform fibres | Talc, non-asbestos form | CAS: 14807-96-6 | 1 - <5 |
| titanium dioxide | TITANIUM DIOXIDE | CAS: 13463-67-7 | 1 - <5 |
| trizinc bis(orthophosphate) | ZINC ORTHOPHOSPHATE | CAS: 7779-90-0 | 0.1 - <1 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | BIS(PENTAMETHYLPIPERIDYL) SEBACATE | CAS: 41556-26-7 | 0.1 - <1 |
| crystalline silica, respirable powder (<10 microns) | QUARTZ (<10 microns) | CAS: 14808-60-7 | 0.1 - <1 |
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| Product code 000001089560 | Date of issue 4/23/202 | 4 (month/day/year) | Version 1.01 | | | |
|---------------------------------------------------|------------------------------|---------------------------------|----------------------|--|--|--|
| Product name SIGMADUR 550 BASE RAL 1003 | | | | | | |
| Section 3. Composition/information on ingredients | | | | | | |
| calcium molybdate Toluene | CALCIUM MOLYBDATE TOLUENE | CAS: 7789-82-4 CAS: 108-88-3 | 0.1 - <1 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. |
| Ε. | 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 | 1 | Use dry chemical, CO ₂ , water spray (fog) or foam. |
| | Unsuitable 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. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is harmful 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 sulfur oxides metal oxide/oxides |
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Section 5. Fire-fighting measures

| 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. |

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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. |
| C. Methods and materials for | containment and cleaning up |
| Small chill | . Stop look if without rick. Move containers from spill area. Use spark proof tools and |

| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Large spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an |

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

| | Precautions for safe handling | Put on appropriate personal protective equipment (see Section 8). 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. |
|--|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|--|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Section 7. Handling and storage

| 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 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 |
|----|--------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | 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 |
|-----------------------------------------------------|-----------------------------------------------------|
| Xylene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). [Xylene (all |
| | isomers)] |
| | STEL: 150 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| n-butyl acetate | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 200 ppm 15 minutes. |
| | TWA: 150 ppm 8 hours. |
| ethylbenzene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 125 ppm 15 minutes. |
| | TWA: 100 ppm 8 hours. |
| Talc , not containing asbestiform fibres | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | TWA: 2 mg/m ³ 8 hours. Form: fibers |
| 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 powder (<10 microns) | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | TWA: 0.05 mg/m ³ 8 hours. Form: |
| | Respirable fraction |
| calcium molybdate | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | [Molybdenum (Insoluble compounds) |
| | (Respirable fraction)] |
| | TWA: 5 mg/m ³ 8 hours. Form: Respirable |
| | fraction |
| | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | [Molybdenum (Insoluble compounds) |
| | (Inhalable fraction)] |
| | TWA: 10 mg/m ³ 8 hours. Form: inhalable |
| | fraction |
| Toluene | Ministry of Employment and Labor |
| | (Republic of Korea, 1/2020). |
| | STEL: 150 ppm 15 minutes. |
| | |
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Section 8. Exposure controls/personal protection

| | | | | TWA: 50 ppm 8 hours. | | | |
|----|--------------------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| | Recommended monitoring procedures | | Reference should be made to appropria national guidance documents for metho substances will also be required. | ate monitoring standards. Reference to ods for the determination of hazardous | | | |
| В. | Appropriate engineering controls | | Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment. | | | | |
| | Environmental exposure controls | | Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | | | | |
| C. | Personal protective equip | me | nt | | | | |
| | Respiratory protection | : | hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use | known or anticipated exposure levels, the orking limits of the selected respirator. If a above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is | | | |
| | Eye protection | : | Chemical splash goggles. | | | | |
| | Hand protection | : | be worn at all times when handling che this is necessary. Considering the par- check during use that the gloves are st should be noted that the time to breakt | ers. In the case of mixtures, consisting of | | | |
| | Gloves | : | For prolonged or repeated handling, us | se the following type of gloves: | | | |
| | | | Recommended: neoprene, natural rub May be used: butyl rubber Not recommended: nitrile rubber | ber (latex), polyvinyl alcohol (PVA), Viton® | | | |
| | Body protection | : | being performed and the risks involved | | | | |
| | Hygiene measures | : | Wash hands, forearms and face thorou eating, smoking and using the lavatory Appropriate techniques should be used | ughly after handling chemical products, before and at the end of the working period. It to remove potentially contaminated clothing. using. Ensure that eyewash stations and | | | |

Product name SIGMADUR 550 BASE RAL 1003

Section 9. Physical and chemical properties

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

| Α. | Appearance | | |
|----|------------------------------------------|---|-----------------------------------------------------------------|
| | Physical state | : | Liquid. |
| | Color | : | Yellow. |
| В. | Odor | : | Ethereal. |
| С. | Odor threshold | : | Not available. |
| D. | рН | : | Not applicable. |
| Ε. | Melting/freezing point | : | Not available. |
| F. | Boiling point/boiling range | : | >37.78°C (>100°F) |
| G. | Flash point | : | Closed cup: 28°C (82.4°F) |
| н. | Evaporation rate | : | Not available. |
| Т. | Flammability (solid, gas) | : | Not available. |
| J. | Lower and upper explosive (flammable) | : | Greatest known range: Lower: 1.4% Upper: 7.6% (n-butyl acetate) |

limits

| Κ. | Vapor pressure | : | | Vapo | r Pressu | re at 20°C | Vapor pressure at 50°C | | |
|----|--------------------------------------------|---|-----------------|----------|-----------|-------------------|------------------------|--------|--------|
| | | | Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| | | | n-butyl acetate | 11.25096 | 1.5 | DIN EN 13016-2 | | | |
| L. | Solubility(ies) | ÷ | Media | Re | sult | | | | |
| _ | | 1 | cold water | No | t soluble | 1 | | | |
| | Solubility in water | : | Not available. | | | | | | |
| м. | Vapor density | : | Not available. | | | | | | |
| N. | Relative density | : | 1.33 | | | | | | |
| Ю. | Partition coefficient: n- octanol/water | : | Not applicable. | | | | | | |
| Ρ. | Auto-ignition temperature | : | | | | | | | |
| | | | Ingredient name | | °C | °F | | Method | |

415

: Kinematic (room temperature): >400 mm²/s (>400 cSt)

Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)

779

| ` | Decomposition | |
|----------|---------------|--|

: Not available.

n-butyl acetate

Q. temperature

Viscosity R.

S.

- Flow time (ISO 2431) Molecular weight
- : Not available. : Not applicable.

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EU A.15

Product name SIGMADUR 550 BASE RAL 1003

Date of issue 4/23/2024 (month/day/year)

Section 10. Stability and reactivity

| A. Chemical stability Possibility of hazardous reactions | The product is stable. Under normal conditions of storage and use, hazardous reactions will not occur. |
|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| B. 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 sulfur oxides metal oxide/oxides |

Section 11. Toxicological information

| A. Information on the likely routes of exposure | / : Not available. | | | | | | | |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|
| Potential acute health effects | | | | | | | | |
| Inhalation : | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. | | | | | | | |
| Ingestion : | Can cause central nervous system (CNS) depression. | | | | | | | |
| Skin contact : | Causes skin irritation. Defatting to the skin. | | | | | | | |
| Eye contact : | Causes serious eye irritation. | | | | | | | |
| Over-exposure signs/sym | <u>ptoms</u> | | | | | | | |
| Inhalation : | Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness | | | | | | | |
| Ingestion : | No specific data. | | | | | | | |
| Skin contact : | Adverse symptoms may include the following: irritation redness dryness cracking | | | | | | | |
| Eye contact : | Adverse symptoms may include the following: pain or irritation watering redness | | | | | | | |
| B. Health hazards | | | | | | | | |

Acute toxicity

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Section 11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|----------------------------------------|---------------------------|---------|---------------------|----------|
| Xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 g/kg | - |
| n-butyl acetate | LC50 Inhalation Vapor | Rat | >21.1 mg/l | 4 hours |
| | LC50 Inhalation Vapor | Rat | 2000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 10.768 g/kg | - |
| ethylbenzene | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
| , | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| titanium dioxide | LC50 Inhalation Dusts and | Rat | >6.82 mg/l | 4 hours |
| | mists | | Ũ | |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| trizinc bis(orthophosphate) | LC50 Inhalation Dusts and | Rat | >5.7 mg/l | 4 hours |
| | mists | | Ū | |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) | LD50 Oral | Rat | 3.125 g/kg | - |
| sebacate | | | 0.0 | |
| calcium molybdate | LC50 Inhalation Dusts and | Rat | >5.1 mg/l | 4 hours |
| 2 | mists | | Ũ | |
| | LD50 Oral | Rat | 0.101 g/kg | - |
| Toluene | LC50 Inhalation Vapor | Rat | 49 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| | LD50 Oral | Rat | 5580 mg/kg | - |

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

Irritation/Corrosion

| Product/ingredient name | | Result | Species | Score | Exposure | Observation |
|--------------------------------------------------------------------------|------|----------------------------------------------------------------|-------------------|-------|--------------------|-------------|
| Xylene | | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| Conclusion/Summary | | | + | | | - |
| Skin | : T | here are no data available o | n the mixture it | self. | | |
| Eyes | : T | here are no data available o | n the mixture it | self. | | |
| Respiratory | : T | here are no data available o | n the mixture it | self. | | |
| <u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory | | nere are no data available on nere are no data available on | | | | |
| <u>Mutagenicity</u> Conclusion/Summary | : TI | here are no data available or | n the mixture its | self. | | |
| <u>Carcinogenicity</u> Conclusion/Summary | : Т | here are no data available o | n the mixture it | self. | | |
| <u>Reproductive toxicity</u> Conclusion/Summary | : 1 | here are no data available o | n the mixture it | self. | | |

Section 11. Toxicological information

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 |
|-----------------------------------------------------------------------|----------------------------------------|-------------------|-------------------------------------------------------------------------|
| Xylene n-butyl acetate Talc , not containing asbestiform fibres | Category 3 Category 3 Category 3 | - - - | Narcotic effects Narcotic effects Respiratory tract irritation |
| Toluene | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Name | Classification | Route of exposure | Target organs |
|------------------------------|--------------------------|-------------------|----------------------------------------------------|
| Xylene | Category 1 | | central nervous system (CNS), kidneys, liver |
| calcium molybdate Toluene | Category 2 Category 2 | - | - |

Aspiration hazard

General

| Name | Result |
|------|------------------------------------------------------------------|
| | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Potential chronic health effects

- : Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
 - : May cause cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity Reproductive toxicity
- No known significant effects or critical hazards.No known significant effects or critical hazards.

Additional information

Carcinogenicity

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Section 11. Toxicological information

| Chemical name | Identifiers | GHS Classification |
|-------------------------------------------------|-----------------|--------------------------------------------|
| Xylene | CAS: 1330-20-7 | FLAMMABLE LIQUIDS - Category 3 |
| | | 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 |
| n-butyl acetate | CAS: 123-86-4 | FLAMMABLE LIQUIDS - Category 2 |
| | 040. 120-00-4 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE |
| | | EXPOSURE) (Narcotic effects) - Category 3 |
| othylhonzono | CAS: 100-41-4 | |
| ethylbenzene | CAS. 100-41-4 | FLAMMABLE LIQUIDS - Category 2 |
| | | ACUTE TOXICITY (inhalation) - Category 4 |
| | | CARCINOGENICITY - Category 2 |
| | | ASPIRATION HAZARD - Category 1 |
| T 1 () () () () () () () | 0.00 44007.00 0 | AQUATIC HAZARD (LONG-TERM) - Category 3 |
| 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 |
| trizinc bis(orthophosphate) | CAS: 7779-90-0 | AQUATIC HAZARD (ACUTE) - Category 1 |
| | | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | CAS: 41556-26-7 | SKIN SENSITIZATION - Category 1B |
| | | TOXIC TO REPRODUCTION - Category 2 |
| | | AQUATIC HAZARD (ACUTE) - Category 1 |
| | | AQUATIC HAZARD (LONG-TERM) - Category 1 |
| crystalline silica, respirable powder (<10 | CAS: 14808-60-7 | CARCINOGENICITY - Category 1A |
| microns) | | |
| calcium molybdate | CAS: 7789-82-4 | ACUTE TOXICITY (oral) - Category 3 |
| | 0,10,1100 02 1 | EYE IRRITATION - Category 2A |
| | | SPECIFIC TARGET ORGAN TOXICITY |
| | | (REPEATED EXPOSURE) - Category 2 |
| Toluene | CAS: 108-88-3 | FLAMMABLE LIQUIDS - Category 2 |
| Telderie | 0.100-00-0 | SKIN IRRITATION - Category 2 |
| | | |
| | | TOXIC TO REPRODUCTION - Category 2 |
| | | SPECIFIC TARGET ORGAN TOXICITY (SINGLE |
| | | EXPOSURE) (Narcotic effects) - Category 3 |
| | | SPECIFIC TARGET ORGAN TOXICITY |
| | | (REPEATED EXPOSURE) - Category 2 |
| | | ASPIRATION HAZARD - Category 1 |

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Section 12. Ecological information

| Product/ingredient name | Result | Species | Exposure |
|-----------------------------|----------------------------------|------------------------------|----------|
| n-butyl acetate | Acute LC50 18 mg/l | Fish | 96 hours |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| trizinc bis(orthophosphate) | Acute LC50 0.112 mg/l | Fish | 96 hours |
| | Chronic NOEC 0.026 mg/l | Fish | 30 days |

B. Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|------------------------------------------------------|-----------------------|------------|-----------------|------|------------------------------------------|-------------|
| n-butyl acetate | TEPA and OECD 301D | 83 % - Rea | adily - 28 days | - | | - |
| ethylbenzene | - | 79 % - Rea | adily - 10 days | - | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodeg | gradability |
| Xylene n-butyl acetate ethylbenzene Toluene | - - - | | - - - | | Readily Readily Readily Readily | , |

C. Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| Xylene | 3.12 | 7.4 to 18.5 | Low |
| n-butyl acetate | 2.3 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |
| Toluene | 2.73 | 8.32 | 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

 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.

Section 13. Disposal considerations

- **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. 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 | ΙΑΤΑ |
|--------------------------------------|-----------------|-----------------|-----------------|
| A. UN number | UN1263 | UN1263 | UN1263 |
| B. UN proper shipping name | PAINT | PAINT | PAINT |
| C. Transport hazard class(es) | 3 | 3 | 3 |
| D. Packing group | III | III | III |
| Environmental hazards | No. | No. | No. |
| E. Marine pollutant substances | Not applicable. | Not applicable. | Not applicable. |

Additional information

| UN | : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.1. |
|------|--------------------------------------------------------------------------------------------------------------|
| IMDG | : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5. |
| ΙΑΤΑ | : None identified. |

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

| Α. | . <u>Regulation according to ISHA</u> | | | | | |
|----|----------------------------------------------------------------------------|---|------------------------------------|--|--|--|
| | ISHA article 117 (Harmful substances prohibited from manufacture) | : | None of the components are listed. | | | |
| | ISHA article 118 (Harmful substances requiring permission) | : | None of the components are listed. | | | |

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Section 15. Regulatory information

| | content te: Regard | | - | | | | | |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| | Article 2 of Youth Protection Act on Substances Hazardous to Youth | - | It is not allowed to sell to persons under the age of 19. | | | | | |
| | Exposure Limits of Chemical Substances and Physical Factors | | | | | | | |
| | The following components have an OEL: Xylene n-butyl acetate ethylbenzene Talc , not containing asbestiform fibres titanium dioxide crystalline silica, respirable powder (<10 microns) | | | | | | | |
| | calcium molybdate Toluene | | | | | | | |
| | ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors) | : | The following components are listed: toluene | | | | | |
| | ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement) | : | The following components are listed: xylene, n-butyl acetate, ethyl benzene, talc / soapstone, titanium dioxide | | | | | |
| | ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up) | : | The following components are listed: Xylene, Ethyl benzene | | | | | |
| | Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control) | : | The following components are listed: xylene, n-butyl acetate, ethyl benzene, titanium dioxide | | | | | |
| В. | Regulation according to | Ch | emicals Control Act | | | | | |
| | Article 11 (TRI) | : | The following components are listed: Xylene including o-,m-,p- isomer, Barium and its compounds, Vanadium and its compounds, Ethylbenzene | | | | | |
| | 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) | 1 | None of the components are listed. | | | | | |
| | Article 20 Toxic Chemicals (K-Reach Article 20) | : | Not applicable | | | | | |
| | Korea inventory | | All components are listed or exempted. | | | | | |
| | Article 39 (Accident Precaution Chemicals) | : | None of the components are listed. | | | | | |
| | | | | | | | | |

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Section 15. Regulatory information

| C. <u>Dangerous Materials</u> <u>Safety Management Ac</u> | Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited |
|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D. <u>Wastes regulation</u> | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| E. Regulation according | <u>o other foreign laws</u> |
| Safety, health and environmental regulations specific fo the product | : No known specific national and/or regional regulations applicable to this product (including its ingredients). |

Section 16. Other information

| Α. | 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. | |
|----|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| В. | Date of issue/Date of revision | 4/23/2024 | |
| С. | Version | 1.01 | |
| | Prepared by | EHS | |

D. Other

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.