SAFETY DATA SHEET



Date of issue (month/day/year) 5/18/2021

Version 2

Section 1. Chemical product and company identification

| A. Product name | : SIGMACOVER 522 BASE GREY GREEN |
|------------------------|---|
| Product code | : 00427103 |
| 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 information Email Address | : PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222 Korea.MSDS@PPG.COM |
| Emergency telephone number: | : +82-52-210-8222 |

Section 2. Hazards identification

| A. Hazard classification | : FLAMMABLE LIQUIDS - Category 3 |
|---------------------------------|---|
| | ACUTE TOXICITY (inhalation) - Category 4 |
| | SKIN CORROSION/IRRITATION - Category 2 |
| | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 |
| | SKIN SENSITIZATION - Category 1 |
| | CARCINOGENICITY - Category 2 |
| | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 |
| | AQUATIC HAZARD (LONG-TERM) - Category 2 |
| This product is classified in a | accordance with the Industrial Safety and Health Act and the Chemical Centrel Act |

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

B. GHS label elements, including precautionary statements

Symbol ÷

Signal word

: Danger

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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. H332 - Harmful if inhaled. H351 - Suspected of causing cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H411 - Toxic to aquatic life with long lasting effects. |
|--|--|
| Precautionary statements | i de la constante d |
| Prevention | P201 - Obtain special instructions before use. 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 | ▶ 391 - Collect spillage. ▶ 308 + P313 - IF exposed or concerned: Get medical advice or attention. ▶ 9304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. ▶ 9362 + P364 - Take off contaminated clothing and wash it before reuse. ▶ 9302 + P352 - IF ON SKIN: Wash with plenty of water. ▶ 9333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. ▶ 9305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. ▶ 9337 + P313 - If eye irritation persists: Get medical advice or attention. |
| 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. |
| C. Other hazards which do not result in classification | : Frolonged 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 | % |
|--|--------------------------------|-----------------|------------|
| ₽ poxy Resin (700 <mw<=1100)< td=""><td>EPOXY RESIN (AVERAGE</td><td>CAS: 25036-25-3</td><td>10 -<20</td></mw<=1100)<> | EPOXY RESIN (AVERAGE | CAS: 25036-25-3 | 10 -<20 |
| | MOLECULAR WEIGHT >700 - <1100) | | |
| Xylene | XYLENES | CAS: 1330-20-7 | 10 -<20 |
| Talc , not containing asbestiform fibres | Talc, non-asbestos form | CAS: 14807-96-6 | 1 - <5 |
| ethylbenzene | ETHYLBENZENE | CAS: 100-41-4 | 1 - <5 |
| 2-methylpropan-1-ol | ISOBUTYL ALCOHOL | CAS: 78-83-1 | 1 - <5 |
| titanium dioxide | TITANIUM DIOXIDE | CAS: 13463-67-7 | 1 - <5 |
| Nonylphenols | 4-nonylphenol, branched | CAS: 84852-15-3 | 0.1 - <1 |
| Toluene | TOLUÊNE | CAS: 108-88-3 | 0.1 - <1 |
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| Section 3 | . Composition/ii | nformation on ingredient | S | |
| Nonylphenols | | Phenol, 2-nonyl-, branched | CAS: 91672-41-2 | <0.1 |
| Nonylphenols | | Phenol, 2-nonyl-, branched | CAS: 91672-41-2 | <0.1 |

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

| 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 | : | Fammable 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 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 |

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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. Collect spillage. |
| C. Methods and materials for | СС | ontainment and cleaning up |
| Small spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Large spill | : | Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Refer to special instructions/safety data sheet. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring |
|----|-------------------------------|--|
|----|-------------------------------|--|

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Section 7. Handling and storage

material. 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 |
|---|---|
| X ylene | Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes. |
| Talc , not containing asbestiform fibres | TWA: 100 ppm 8 hours. Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 2 mg/m ³ 8 hours. Form: fibers |
| ethylbenzene | Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours. |
| 2-methylpropan-1-ol | Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 50 ppm 8 hours. |
| 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 |
| Toluene | Ministry of Employment and Labor (Republic of Korea, 1/2020). STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. |
| monitoring procedures atmosphere or biolo of the ventilation or protective equipmen standards. Referen | ains ingredients with exposure limits, personal, workplace ogical monitoring may be required to determine the effectiveness other control measures and/or the necessity to use respiratory nt. Reference should be made to appropriate monitoring nce to national guidance documents for methods for the zardous substances will also be required. |
| | uste ventiletien. Llee process engleeuree, leeel evheuet |

B. 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.

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Section 8. Exposure controls/personal protection

| | 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 | ome | ent |
| | Respiratory protection | | Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. |
| | Eye protection | 1 | Chemical splash goggles. |
| | Hand protection | : | Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| | Gloves | 1 | butyl rubber |
| | Body protection | : | Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| | 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

| Α. | Appearance | | |
|----|--------------------------------|---|---------------------------|
| | Physical state | 1 | Liquid. |
| | Color | 1 | Gray. |
| В. | Odor | 1 | Aromatic. [Strong] |
| С. | Odor threshold | 1 | Not available. |
| D. | рН | 1 | Not applicable. |
| Ε. | Melting/freezing point | 1 | Not available. |
| F. | Boiling point/boiling range | 1 | >37.78°C (>100°F) |
| G. | Flash point | 1 | Closed cup: 26°C (78.8°F) |
| н. | Evaporation rate | 1 | Not available. |
| | | | N 1 - 4 11 - 1 - 1 |

I. Flammability (solid, gas) : Not available.

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Section 9. Physical and chemical properties

| J. | Lower and upper explosive (flammable) limits | Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol) | |
|----|--|--|--|
| κ. | Vapor pressure | lot available. | |
| L. | Solubility | nsoluble in the following materials: cold water. | |
| | Solubility in water | Not available. | |
| Μ. | Vapor density | lot available. | |
| Ν. | Relative density | .89 | |
| 0. | Partition coefficient: n- octanol/water | fot applicable. | |
| Ρ. | Auto-ignition temperature | Not available. | |
| Q. | Decomposition temperature | Not available. | |
| R. | Viscosity | Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) | |
| 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

| A. Information on th routes of exposu | |
|---------------------------------------|---|
| Potential acute hea | Ith effects |
| Inhalation | : Harmful if inhaled. |
| Ingestion | : No known significant effects or critical hazards. |
| Skin contact | : $ ot\!$ |
| Eye contact | : Causes serious eye irritation. |
| Over-exposure sign | <u>is/symptoms</u> |
| Inhalation | : No specific data. |
| Ingestion | : No specific data. |

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Section 11. Toxicological information

| 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

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|---------------------------|---------|-------------|----------|
| ₽ poxy Resin (700 <mw<=1100)< p=""></mw<=1100)<> | LD50 Dermal | Rat | >2000 mg/kg | - |
| | LD50 Oral | Rat | >2000 mg/kg | - |
| Xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 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 | - |
| 2-methylpropan-1-ol | LC50 Inhalation Vapor | Rat | 24.6 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2460 mg/kg | - |
| | LD50 Oral | Rat | 2830 mg/kg | - |
| titanium dioxide | LC50 Inhalation Dusts and | Rat | >6.82 mg/l | 4 hours |
| | mists | | | |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Nonylphenols | LD50 Dermal | Rabbit | 2.14 g/kg | - |
| | LD50 Oral | Rat | 1300 mg/kg | - |
| Toluene | LC50 Inhalation Vapor | Rat | 49 g/m³ | 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 | |
| Nonylphenols | Skin - Erythema/Eschar | Rabbit | 4 | - | - |
| Conclusion/Summary | | | | | |

| 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

| Conclusion/Summary | |
|--------------------|--|
| Skin | : There are no data available on the mixture itself. |
| Respiratory | : There are no data available on the mixture itself. |

Mutagenicity

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Section 11. Toxicological information

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 |
|--|----------------|-------------------|------------------------------|
| Xylene | Category 3 | - | Narcotic effects |
| Talc , not containing asbestiform fibres | Category 3 | - | Respiratory tract irritation |
| 2-methylpropan-1-ol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| 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 |
| Toluene | Category 2 | - | - |

Aspiration hazard

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

Potential chronic health effects

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

Additional information

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Section 11. Toxicological information

Frolonged 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 | Common name | CAS # | GHS Classification |
|---|---|----------------------------------|---|
| ₽́poxy Resin (700 <mw <=1100)</mw | EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) | CAS: 25036-25-3 | SKIN CORROSION/IRRITATION - Category 2 |
| Xylene | XYLENES | CAS: 1330-20-7 | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 FLAMMABLE LIQUIDS - Category 3 |
| | | 1550-20-7 | ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - |
| | | | Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - |
| Talc , not containing asbestiform fibres | Talc, non-asbestos form | CAS: 14807-96-6 | Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract |
| ethylbenzene | ETHYLBENZENE | CAS: | irritation) - Category 3 FLAMMABLE LIQUIDS - Category 2 |
| 2-methylpropan-1-ol | ISOBUTYL ALCOHOL | 100-41-4 CAS: 78-83-1 | ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 FLAMMABLE LIQUIDS - Category 3 |
| | | / 0-03-1 | SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| titanium dioxide | TITANIUM DIOXIDE | CAS: | ASPIRATION HAZARD - Category 2 CARCINOGENICITY - Category 2 |
| Nonylphenols | 4-nonylphenol, branched | 13463-67-7 CAS: 84852-15-3 | CORROSIVE TO METALS - Category 1 |
| | | 04002-10-3 | ACUTE TOXICITY (oral) - Category 4 SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE |
| | | | |
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Section 12. Ecological information

A. <u>Ecotoxicity</u>

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|--|--|----------------------|
| ethylbenzene | Acute LC50 150 to 200 mg/l Fresh water | Fish | 96 hours |
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Nonylphenols | Acute EC50 0.04 mg/l | Algae - Pseudokirchneriella subcapitata | 72 hours |
| | Acute EC50 0.044 mg/l | Crustaceans - Moina macrocopa | 48 hours |
| Nonylphenols | Acute LC50 0.221 mg/l Acute LC50 0.017 mg/l | Fish Fish - Pleuronectes americanus | 96 hours 96 hours |

Category 1

B. Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| Xylene | - | - | Readily |
| ethylbenzene | - | - | Readily |
| Toluene | - | - | Readily |

C. Bioaccumulative potential

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Section 12. Ecological information

| | • | | |
|-------------------------|--------|-------------|-----------|
| Product/ingredient name | LogPow | BCF | Potential |
| X ylene | 3.12 | 7.4 to 18.5 | low |
| ethylbenzene | 3.6 | 79.43 | low |
| 2-methylpropan-1-ol | 1 | - | low |
| Nonylphenols | 5.4 | 251.19 | low |
| Toluene | 2.73 | 8.32 | low |

D. Mobility in soil

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

| Α. | 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. |
|----|------------------|---|--|
| | | | landilli should only be considered when recycling is not reasible. |

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 | IATA |
|--------------------------------------|--|---------------------------|--|
| 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 | Yes. The environmentally hazardous substance mark is not required. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| E. Marine pollutant substances | Not applicable. | (4-nonylphenol, branched) | Not applicable. |

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Section 14. Transport information

Additional information

| UN | : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.3.2.5.2. |
|------|---|
| IMDG | : This class 3 viscous liquid that is also environmentally hazardous is not subject to regulation in packagings up to 5 L, 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 according to 2.3.2.5. |
| ΙΑΤΑ | : The environmentally hazardous substance mark may appear if required by other transportation regulations. |

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

| ٩. | Regulation according to I | SH | <u>A</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. |
| | 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 Chem | ica | I Substances and Physical Factors |
| | The following components Vylene Talc, not containing asbe ethylbenzene 2-methylpropan-1-ol titanium dioxide Toluene | | |
| | ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors) | : | The following components are listed: toluene |
| | ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement) | : | The following components are listed: xylene, talc / soapstone, ethyl benzene, isobutyl alcohol, titanium dioxide |

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Section 15. Regulatory information

| | ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up) | : | The following components are listed: Xylene, Ethyl benzene, Isobutyl alcohol |
|----|---|-----|--|
| | Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control) | : | The following components are listed: xylene, ethyl benzene, isobutyl alcohol, titanium dioxide |
| В. | Regulation according to | Ch | emicals Control Act |
| | CCA Article 11 (TRI) | : | The following components are listed: Xylene including o-,m-,p- isomer, Ethylbenzene |
| | CCA Article 18 Prohibited (K-Reach Article 27) | - | None of the components are listed. |
| | CCA Article 19 Subject to authorization (K- Reach Article 25) | : | None of the components are listed. |
| | CCA Article 20 Restricted (K-Reach Article 27) | : | The following components are listed: nonylphenol |
| | CCA Article 20 Toxic Chemicals (K-Reach Article 20) | : | Not applicable |
| | Korea inventory | : | At least one component is not listed. |
| | CCA Article 39 (Accident Precaution Chemicals) | : | None of the components are listed. |
| C. | Dangerous Materials Safety Management Act | : | 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. | Wastes regulation | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Е. | Regulation according to | oth | <u>er foreign laws</u> |
| | Safety, health and environmental regulations specific for the product | : | No known specific national and/or regional regulations applicable to this product (including its ingredients). |

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Section 16. Other information

| A. References | Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System. |
|-----------------------------------|--|
| B. Date of issue/Date of revision | : 5/18/2021 |
| C. Version | : 2 |
| 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.