SAFETY DATA SHEET



Date of issue 11/26/2024 (month/day/year)

Version 6

Section 1. Chemical product and company identification

| Α. | Product name Product code | : SIGMADUR 520 BASE BASE Z (LEAD FREE COLOURS) : 00202815 |
|----|---|--|
| В. | Relevant identified uses of Product use | of the substance or mixture and uses advised against : Professional applications, Used by spraying. |

| | Product use | | Professional applications, used by spraying. |
|----|--------------------------------------|---|--|
| | Use of the substance/ mixture | : | 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: | 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 |
| | SPEČIFIC 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 :



Signal word

: Danger

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Section 2. Hazards identification

| Hazard statements | F226 - 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 statemen | ts |
| Prevention | P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P241 - Use explosion-proof electrical, ventilating or lighting equipment. |
| | P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P240 - Ground and bond container and receiving equipment. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling. |
| Response | P370 + P378 - In case of fire: Never use water to extinguish. P308 + P313 - IF exposed or concerned: Get medical advice or attention. P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. P321 - Specific treatment (see the label). |
| Storage | P403 + 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.

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Section 3. Composition/information on ingredients

| Chemical name | Common name | Identifiers | % |
|---|------------------------------|-----------------|----------|
| titanium dioxide | TITANIUM DIOXIDE | CAS: 13463-67-7 | 10 -<20 |
| | | EC: 236-675-5 | |
| Xylene | XYLENES | CAS: 1330-20-7 | 10 -<20 |
| | | EC: 215-535-7 | |
| Talc , not containing asbestiform fibres | Talc, non-asbestos form | CAS: 14807-96-6 | 5 - <10 |
| | | EC: 238-877-9 | |
| Solvent naphtha (petroleum), light | SOLVENT NAPHTHA (PETROLEUM), | CAS: 64742-95-6 | 5 - <10 |
| aromatic | LIGHT AROMATIC | | |
| | | EC: 265-199-0 | |
| 2-methoxy-1-methylethyl acetate | 1-METHOXY-2-PROPYL ACETATE | CAS: 108-65-6 | 5 - <10 |
| | | EC: 203-603-9 | |
| 1,2,4-trimethylbenzene | 1,2,4-TRIMETHYL BENZENE | CAS: 95-63-6 | 1 - <5 |
| | | EC: 202-436-9 | |
| 3-ethyltoluene | Benzene, 1-ethyl-3-methyl | CAS: 620-14-4 | 1 - <5 |
| | | EC: 210-626-8 | |
| ethylbenzene | ETHYLBENZENE | CAS: 100-41-4 | 1 - <5 |
| | | EC: 202-849-4 | |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) | BIS(PENTAMETHYLPIPERIDYL) | CAS: 41556-26-7 | 0.1 - <1 |
| sebacate | SEBACATE | | |
| | | EC: 255-437-1 | |
| carbon black | CARBON BLACK | CAS: 1333-86-4 | 0.1 - <1 |
| | | EC: 215-609-9 | |
| crystalline silica, respirable powder (<10 microns) | QUARTZ (<10 microns) | CAS: 14808-60-7 | 0.1 - <1 |
| | | EC: 238-878-4 | |

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

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

Section 4. First aid measures

| Α. | Eye contact | : | Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice. |
|----|---------------------|---|--|
| в. | Skin contact | : | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners. |
| C. | Inhalation | : | Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. |
| D. | Ingestion | : | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting. |
| Ε. | Notes to physician | : | ✓reat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Specific treatments | : | No specific treatment. |

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Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Α. | Extinguishing media | | | | |
|----|--|---|---|--|--|
| | Suitable extinguishing media | : | Use 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 | | |
| 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. | | |
| C | Saction 6 Accidental release measures | | | | |

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

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Section 6. Accidental release measures

| 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). 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. |
|----|--|---|--|
| 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 |

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

| Ingredient name | Exposure limits |
|--|-------------------------------------|
| ∕ī́itanium dioxide | ISHA Article 42 (Republic of Korea, |
| | 1/2020) |
| | TWA 8 hours: 10 mg/m ³ . |
| Xylene | ISHA Article 42 (Republic of Korea, |
| | 1/2020) [Xylene] |
| | STEL 15 minutes: 150 ppm. |
| | TWA 8 hours: 100 ppm. |
| Talc , not containing asbestiform fibres | ISHA Article 42 (Republic of Korea, |
| - | 1/2020) |
| | TWA 8 hours: 2 mg/m³ (as asbestos). |
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contamination. See Section 10 for incompatible materials before handling or use.

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Section 8. Exposure controls/personal protection

| • | | | | |
|----|--------------------------------------|-----|---|--|
| | 1,2,4-trimethylbenzene | | | Form: fibers. ISHA Article 42 (Republic of Korea, 1/2020) [Trimethyl benzene] |
| | ethylbenzene | | | TWA 8 hours: 25 ppm. ISHA Article 42 (Republic of Korea, 1/2020) |
| | carbon black | | | STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 3.5 mg/m ³ . Form: inhalable |
| | crystalline silica, respirable | e p | owder (<10 microns) | fraction. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 0.05 mg/m ³ . Form: Respirable fraction. |
| | Recommended monitoring procedures | : | Reference should be made to appropria national guidance documents for methor substances will also be required. | ate monitoring standards. Reference to ods for the determination of hazardous |
| В. | Appropriate engineering controls | : | | to keep worker exposure to airborne I or statutory limits. The engineering controls oncentrations below any lower explosive |
| | Environmental exposure controls | : | | |
| C. | Personal protective equip | omo | ent | |
| | Respiratory protection | | hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use respirator complying with an approved necessary. | 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 s should be noted that the time to break | ers. In the case of mixtures, consisting of |
| | Body protection | : | being performed and the risks involved | |

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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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 9. Physical and chemical properties

: Liquid. : Various

: Aromatic.

: Not available.

: Not applicable.

: Not available.

: >37.78°C (>100°F)

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

A. Appearance

| Physical state | |
|----------------|--|
| Color | |

- B. Odor
- C. Odor threshold
- D. pH
- E. Melting/freezing point
- F. Boiling point/boiling range
 - : Closed cup: 34°C (93.2°F)
- G. Flash pointH. Evaporation rate
- : Not available.

: Not available.

- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure

| | Vapo | Vapor Pressure at 20°C | | | Vapor pressure at 50°C | | |
|-----------------|---------|------------------------|--------|----------|------------------------|----------|--|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method | |
| ethylbenzene | 9.30076 | 1.2 | | | | | |
| Media | Re | sult | + | | | i | |
| cold water | No | t soluble |) | | | | |
| Not available. | | | | | | | |
| Not available. | | | | | | | |
| 1.28 | | | | | | | |

- L. Solubility(ies)
- Solubility in water Vapor density M.
- N. Relative density
- O. Partition coefficient: n-
- ^{O.} octanol/water
- P. Auto-ignition temperature

| Ingredient name | °C | °F | Method |
|---|------------|------------|--------|
| Solvent naphtha (petroleum), light aromatic | 280 to 470 | 536 to 878 | |

- Q. Decomposition temperature
- : Not available.

: Not applicable.

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Section 9. Physical and chemical properties

| R. | Viscosity | : | Øynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt) |
|-----------------|----------------------|---|--|
| I | Flow time (ISO 2431) | : | Not available. |
| s. ^I | Molecular weight | ; | Not applicable. |

Section 10. Stability and reactivity

| Α. | Chemical stability | 1 | 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 sulfur oxides metal oxide/oxides |

Section 11. Toxicological information

A. Information on the likely : Not available. routes of exposure

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 | : 🖉 auses skin irritation. Defatting to the skin. |
| Eye contact | : Causes serious eye irritation. |
| <u>Over-exposure sign</u> | s/symptoms |
| Inhalation | : Adverse symptoms may include the following: |

| Inhalation | : | Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
|--------------|---|---|
| Ingestion | 4 | 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 |

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Section 11. Toxicological information

B. Health hazards

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|---------|-------------------------|----------|
| Manium 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 | - |
| Xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 g/kg | - |
| Solvent naphtha (petroleum), light aromatic | LD50 Dermal | Rabbit | 3.48 g/kg | - |
| | LD50 Oral | Rat | 8400 mg/kg | - |
| 2-methoxy-1-methylethyl acetate | LC50 Inhalation Vapor | Rat | 30 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | >5 g/kg | - |
| | LD50 Oral | Rat | 6190 mg/kg | - |
| 1,2,4-trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5 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 | - |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | LD50 Oral | Rat | 3.125 g/kg | - |
| carbon black | LD50 Oral | Rat | >10 g/kg | - |

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

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|--------------------------------|------------------|---------|--------------------|-------------|
| ₩ylene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| Conclusion/Summary | | | | | <u>.</u> |
| Skin : | There are no data available of | on the mixture i | tself. | | |
| Eyes : | There are no data available of | on the mixture i | tself. | | |
| Respiratory : | There are no data available of | on the mixture i | tself. | | |
| Sensitization Conclusion/Summary | | | | | |
| Skin : | There are no data available on | the mixture its | self. | | |
| Respiratory : | There are no data available on | the mixture its | self. | | |
| <u>Mutagenicity</u> | | | | | |
| Conclusion/Summary : | There are no data available or | n the mixture it | self. | | |
| Carcinogenicity Conclusion/Summary : | There are no data available o | n the mixture i | tself. | | |
| Reproductive toxicity Conclusion/Summary : | There are no data available o | on the mixture i | itself. | | |
| <u>Teratogenicity</u> Conclusion/Summary : | There are no data available o | on the mixture i | itself. | | |
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Section 11. Toxicological information

Specific target organ toxicity (single exposure)

| Name | Classification | Route of exposure | Target organs |
|---|----------------|-------------------|---------------------------------|
| ⋉ ylene | Category 3 | - | Narcotic effects |
| Talc , not containing asbestiform fibres | Category 3 | - | Respiratory tract irritation |
| Solvent naphtha (petroleum), light aromatic | Category 3 | - | Narcotic effects |
| 2-methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| 1,2,4-trimethylbenzene | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

| Name | Result |
|----------------|--|
| 3-ethyltoluene | ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1 |

Potential chronic health effects

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

Additional information

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

| Chemical name | Identifiers | GHS Classification |
|------------------|----------------------------------|---|
| titanium dioxide | CAS: 13463-67-7 EC: 236-675-5 | CARCINOGENICITY - Category 2 |
| Xylene | CAS: 1330-20-7 EC: 215-535-7 | 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 |
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Section 11. Toxicological information

| Talc , not containing asbestiform fibres | CAS: 14807-96-6 | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
|---|----------------------------------|---|
| Solvent naphtha (petroleum), light aromatic | EC: 238-877-9 CAS: 64742-95-6 | FLAMMABLE LIQUIDS - Category 3 |
| | EC: 265-199-0 | SKIN IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 |
| 2-methoxy-1-methylethyl acetate | CAS: 108-65-6 EC: 203-603-9 | FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 |
| 1,2,4-trimethylbenzene | CAS: 95-63-6 EC: 202-436-9 | FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 2 |
| 3-ethyltoluene | CAS: 620-14-4 EC: 210-626-8 | FLAMMABLE LIQUIDS - Category 3 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 |
| ethylbenzene | CAS: 100-41-4 EC: 202-849-4 | FLAMMABLE LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | CAS: 41556-26-7 | SKIN SENSITIZATION - Category 1B |
| | EC: 255-437-1 | TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 |
| carbon black | CAS: 1333-86-4 EC: 215-609-9 | CARCINOGENICITY - Category 2 |
| crystalline silica, respirable powder (<10 microns) | CAS: 14808-60-7 | CARCINOGENICITY - Category 1A |
| | EC: 238-878-4 | |

Section 12. Ecological information

A. <u>Ecotoxicity</u>

| Product/ingredient name | Result | Species | Exposure |
|-----------------------------|----------------------------------|------------------------------|----------|
| titanium dioxide | Acute LC50 >100 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| Solvent naphtha | Acute LC50 8.2 mg/l | Fish | 96 hours |
| (petroleum), light aromatic | | | |
| 2-methoxy-1-methylethyl | Acute LC50 134 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| acetate | | | |
| ethylbenzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |

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Section 12. Ecological information

B. Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|--|-------------------|------------|-----------------|------|--------------------|-------------------|
| 2-methoxy-1-methylethyl acetate | - | | adily - 28 days | - | | - |
| ethylbenzene | - | 79 % - Rea | adily - 10 days | - | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodeg | radability |
| Xylene 2-methoxy-1-methylethyl acetate | - | | - | | Readily Readily | |
| ethylbenzene | - | | - | | Readily | , |

C. Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| ⊠ ylene | 3.12 | 7.4 to 18.5 | Low |
| 2-methoxy-1-methylethyl | 1.2 | - | Low |
| acetate | | | |
| 1,2,4-trimethylbenzene | 3.63 | 120.23 | Low |
| 3-ethyltoluene | 3.98 | - | Low |
| ethylbenzene | 3.6 | 79.43 | Low |

D. Mobility in soil

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

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

Section 13. Disposal considerations

| Α. | Disposa | al 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. 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.

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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. |

IATA : 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

| Regulation according to ISHA | | | | | |
|--|--|--|--|--|--|
| 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. | | | | |
| | ISHA article 117 (Harmful substances prohibited from manufacture) ISHA article 118 (Harmful substances requiring permission) Article 2 of Youth Protection Act on Substances Hazardous | | | | |

Exposure Limits of Chemical Substances and Physical Factors

The following components have an OEL:

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| ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement) | • : | The following components are listed: titanium dioxide, xylene, talc / soapstone, ethyl benzene | | | |
|---|-----|--|--|--|--|
| 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: titanium dioxide, xylene, ethyl benzene | | | |
| B. 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, 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) | : | 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. | | | |
| C. <u>Dangerous Materials</u> <u>Safety Management Act</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. <u>Regulation according to other 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. | I |
|------------|--------------------------------|--|---|
| в. | First issue date | : 10/5/2019 | |
| C. | Date of issue/Date of revision | : 11/26/2024 | |
| D. | Version | : 6 | |
| | Prepared by | : EHS | |

E. 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.