SAFETY DATA SHEET

SIGMADUR 550 BASE GREEN 4171



Date of issue 15 January 2025

Version 30

1. Product and company identification

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|--------------------------------------|--|--|
| Product name | : SIGMADUR 550 BASE GREEN 4171 | |
| Product code | : 00318732 | |
| Product type | : Liquid. | |
| Relevant identified uses | of the substance or mixture and uses advised against | |
| Product use | : Professional applications, Used by spraying. | |
| Use of the substance/ mixture | : Coating. | |
| Uses advised against | : Not applicable. | |
| Supplier's details | : PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777 | |

Emergency telephone : 078 574 2777 number

2. Hazards identification

| Hazard statements | : Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. |
|---|---|
| Signal word | : Danger |
| GHS label elements Hazard pictograms | |
| GHS Classification | : FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 2 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 2 |

| Precautionary statements | | |
|----------------------------|---|---|
| Prevention | : | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. |
| Response | : | Collect spillage. IF exposed or concerned: Call a POISON CENTER or doctor. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| Storage | : | Store locked up. Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | : | Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Other hazards which do not | | Prolonged or repeated contact may dry skin and cause irritation. |

Other hazards which do not result in classification

: Prolonged or repeated contact may dry skin and cause irritation.

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

| CAS number | : Not applicable. |
|-------------|-------------------|
| CSCL number | : Not available. |

| Ingredient name | % | CAS number | CSCL |
|---|------------|------------|----------------|
| 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono(2-methyl-2-propenoate) and 2-propenoic acid | 25 - <50 | 37237-99-3 | 6-1243 |
| barium sulfate | 15 - <20 | 7727-43-7 | 1-89 |
| Titanium dioxide (excluding nanoparticle) | 12.5 - <15 | 13463-67-7 | 1-558; 5-5225 |
| Talc (containing no asbestos or quartz) | 7 - <10 | 14807-96-6 | Not available. |
| Solvent naphtha (petroleum), light aromatic | 7 - <10 | 64742-95-6 | Not available. |
| Ethyl Benzene | 5 - <7 | 100-41-4 | 3-28; 3-60 |
| Butyl acetate | 5 - <7 | 123-86-4 | 2-731 |
| 1,2,4-Trimethylbenzene | 5 - <7 | 95-63-6 | 3-3427; 3-7 |
| Xylene | 3 - <5 | 1330-20-7 | 3-3; 3-60 |
| Octadecanamide, N,N'-1,6-hexanediylbis [12-hydroxy- | 0.5 - <1 | 55349-01-4 | 2-3055 |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 0.2 - <0.5 | 41556-26-7 | 5-5501 |
| Cumene | 0.1 - <0.2 | 98-82-8 | 3-22 |
| Titanium dioxide (excluding nanoparticle) | 0.1 - <0.2 | 13463-67-7 | 1-558; 5-5225 |
| propylidynetrimethanol | 0.1 - <0.2 | 77-99-6 | 2-245 |
| Silica | 0.1 - <0.2 | 7631-86-9 | 1-548 |

3. Composition/information on ingredients

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.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

| Description of | f necessary | <u>/ first aid n</u> | <u>1easures</u> |
|----------------|-------------|----------------------|-----------------|
| | | | |

| 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. |
|--------------|--|
| 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. |
| 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. |
| Ingestion | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting. |

Most important symptoms/effects, acute and delayed

Potential acute health effects

| <u>Polential acule nealth enect</u> | <u>2</u> |
|-------------------------------------|---|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact | : May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. |
| Over-exposure signs/sympto | <u>oms</u> |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths |

skeletal malformations

| 4. First aid measures | | |
|-----------------------------|------|---|
| Indication of immediate med | dica | l attention and special treatment needed, if necessary |
| 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)

5. Fire-fighting measures

| Extinguishing media | |
|--|---|
| Suitable extinguishing media | : Use dry chemical, CO_2 , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| 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 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 sulfur oxides metal oxide/oxides |
| Special protective actions for fire-fighters | : 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. |
| Special protective equipment for fire-fighters | : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

6. Accidental release measures

| Personal precautions, protect | ve equipment and emergency procedures |
|----------------------------------|---|
| For non-emergency : personnel | 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. |
| For emergency responders | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". |

6. Accidental release measures

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.

Methods and materials for containment and cleaning up

| Small spill | : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and 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. |

7. Handling and storage

Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. 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.

Conditions for safe storage : 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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

| Ingredient name | Exposure limits |
|--|--|
| Manium dioxide | Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide] OEL-M 8 hours: 1.5 mg/m ³ (as Ti). Form: Respirable particulate matter. OEL-M 8 hours: 2 mg/m ³ (as Ti). Form: Total particulate matter. Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide (nanoparticle)] OEL-M 8 hours: 0.3 mg/m ³ . Form: nanoparticle. |
| Talc , not containing asbestiform fibres | Japan Society for Occupational Health (Japan, 5/2023) [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)] OEL-M 8 hours: 2 mg/m ³ . Form: Total dust (Class 1 Dust). OEL-M 8 hours: 0.5 mg/m ³ . Form: Respirable dust (Class 1 Dust). |
| ethylbenzene | Japan Society for Occupational Health (Japan, 5/2023) Absorbed through skin. OEL-M 8 hours: 20 ppm. OEL-M 8 hours: 87 mg/m ³ . Industrial Safety and Health Act (Japan, 6/2020) TWA 8 hours: 20 ppm. |
| n-butyl acetate | Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 100 ppm. OEL-M 8 hours: 475 mg/m ³ . Industrial Safety and Health Act (Japan, 6/2020) TWA 8 hours: 150 ppm. |
| 1,2,4-trimethylbenzene | Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 25 ppm. OEL-M 8 hours: 120 mg/m ³ . |
| xylene | Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 50 ppm. OEL-M 8 hours: 217 mg/m ³ . Industrial Safety and Health Act (Japan, 6/2020) [xylene] TWA 8 hours: 50 ppm. |
| cumene | Japan Society for Occupational Health (Japan, 5/2023) Absorbed through skin. OEL-M 8 hours: 50 mg/m ³ . OEL-M 8 hours: 10 ppm. Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 4/2023) |
| | Japan Page: 6/1 |

| 8. Exposure contr | rols/personal protection | |
|-----------------------------------|--|--|
| titanium dioxide (<10 microns | 3) | TWA 8 hours: 10 ppm. Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide] OEL-M 8 hours: 1.5 mg/m ³ (as Ti). Form: Respirable particulate matter. OEL-M 8 hours: 2 mg/m ³ (as Ti). Form: Total particulate matter. Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide (nanoparticle)] OEL-M 8 hours: 0.3 mg/m ³ . Form: nanoparticle. |
| Recommended monitoring procedures | : Reference should be made to approprinational guidance documents for meth substances will also be required. | iate monitoring standards. Reference to ods for the determination of hazardous |
| Appropriate engineering controls | or other engineering controls to keep w below any recommended or statutory l | se process enclosures, local exhaust ventilation vorker exposure to airborne contaminants imits. The engineering controls also need to s below any lower explosive limits. Use |
| Environmental exposure controls | they comply with the requirements of e | cess equipment should be checked to ensure environmental protection legislation. In some eering modifications to the process equipment to acceptable levels. |
| Individual protection measu | res | |
| Hygiene measures | eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no | d to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety |
| Eye protection | : Chemical splash goggles. | |
| Skin protection | | |
| 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 | : butyl rubber | |
| Body protection | being performed and the risks involved | |
| Other skin protection | : Appropriate footwear and any additional selected based on the task being performant approved by a specialist before handling approved by a special by a speci | ormed and the risks involved and should be |

8. Exposure controls/personal protection

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.

9. Physical and chemical properties

Appearance

| Physical state | : Liquid. | | |
|------------------|-----------------------|-------------|--|
| Boiling point | : >37.78°C (>100°F) | | |
| Flash point | : Closed cup: 31°C (8 | 7.8°F) | |
| Relative density | : 1.37 | | |
| Solubility(ies) | Media | Result | |
| Solubility(les) | . cold water | Not soluble | |
| | | | |

| 10. Stability and r | eactivity |
|------------------------------------|---|
| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : When exposed to high temperatures may produce hazardous decomposition products. |
| Incompatible materials | : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids. |
| Hazardous decomposition products | : Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides metal oxide/oxides |

11. Toxicological information

Information on toxicological effects

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---------------------------------|------------|----------------------------|----------|
| 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono (2-methyl-2-propenoate) and 2-propenoic acid | LD50 Oral | Rat | >5000 mg/kg | - |
| barium sulfate | LD50 Dermal LD50 Oral | Rat Rat | >2000 mg/kg >5000 mg/kg | - |
| Titanium dioxide (excluding nanoparticle) | LC50 Inhalation Dusts and mists | Rat | >6.82 mg/l | 4 hours |

11. Toxicological information

| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
|------------------------------|---------------------------------|-------------|-------------------------|---------|
| | LD50 Oral | Rat | >5000 mg/kg | - |
| Solvent naphtha (petroleum), | LD50 Dermal | Rabbit | 3.48 g/kg | - |
| light aromatic | | | | |
| | LD50 Oral | Rat | 8400 mg/kg | - |
| Ethyl Benzene | LC50 Inhalation Vapor | Rat | 17.8 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17.8 g/kg | - |
| | LD50 Oral | Rat | 3.5 g/kg | - |
| 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 | - |
| 1,2,4-Trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5 g/kg | - |
| Xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| | LD50 Oral | Rat | 4.3 g/kg | - |
| bis(1,2,2,6,6-pentamethyl- | LD50 Oral | Rat | 3.125 g/kg | - |
| 4-piperidyl) sebacate | | | | |
| Cumene | LC50 Inhalation Vapor | Rat | 39000 mg/m³ | 4 hours |
| | LD50 Dermal | Rabbit | 12.3 g/kg | - |
| | LD50 Oral | Rat | 2260 mg/kg | - |
| Titanium dioxide (excluding | LC50 Inhalation Dusts and mists | Rat | >6.82 mg/l | 4 hours |
| nanoparticle) | | | | |
| | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat | >5000 mg/kg | - |
| propylidynetrimethanol | LD50 Dermal | Rabbit | 10 g/kg | - |
| - | LD50 Oral | Rat | 14000 mg/kg | - |
| Silica | LD50 Dermal | Rabbit | >5000 mg/kg | - |
| | LD50 Oral | Rat - Male, | >5000 mg/kg | - |
| | | Female | | |
| | l | 1 | 1 | |

Irritation/Corrosion

| t | Species | Score | Exposure | Observation |
|-------------------|---------|-------|----------------------------|-------------|
| Moderate irritant | Rabbit | | | - |
| | | | Moderate irritant Rabbit - | |

Sensitization

| Product/ingredient name | Route of exposure | Species | Result |
|---|-------------------|---------|-------------|
| 2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl 2-propenoate, ethenylbenzene, 1,2-propanediol mono (2-methyl-2-propenoate) and 2-propenoic acid | skin | Mouse | Sensitizing |

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

11. Toxicological information

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|---|
| Talc (containing no asbestos or quartz) | Category 1 | - | respiratory organs |
| Solvent naphtha (petroleum), light aromatic | Category 3 | - | Narcotic effects |
| Ethyl Benzene | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Butyl acetate | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| 1,2,4-Trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Xylene | Category 1 | - | central nervous system (CNS), kidneys, liver, respiratory organs |
| | Category 3 | | Narcotic effects |
| Cumene | Category 1 | - | nervous system |
| | Category 3 | | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| Silica | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | Category | Route of exposure | Target organs |
|---|------------|-------------------|--------------------|
| barium sulfate | Category 1 | - | respiratory organs |
| Titanium dioxide (excluding nanoparticle) | Category 1 | - | respiratory organs |
| Talc (containing no asbestos or quartz) | Category 1 | - | respiratory organs |
| Ethyl Benzene | Category 1 | - | hearing organs, |
| | | | nervous system |
| 1,2,4-Trimethylbenzene | Category 1 | - | central nervous |
| | | | system (CNS), |
| | | | respiratory organs |
| Xylene | Category 1 | - | nervous system, |
| | | | respiratory organs |
| Cumene | Category 2 | - | respiratory organs |
| Titanium dioxide (excluding nanoparticle) | Category 1 | - | respiratory organs |
| Silica | Category 1 | - | immune system, |
| | | | kidneys, |
| | | | respiratory organs |

Aspiration hazard

| Name | Result |
|---|--------------------------------|
| Solvent naphtha (petroleum), light aromatic | ASPIRATION HAZARD - Category 1 |
| Ethyl Benzene | ASPIRATION HAZARD - Category 1 |
| 1,2,4-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| Xylene | ASPIRATION HAZARD - Category 1 |
| Cumene | ASPIRATION HAZARD - Category 1 |

Information on the likely : Not available.

routes of exposure

Potential acute health effects

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11. Toxicological information

| The Toxicologi | |
|----------------|---|
| Eye contact | : Causes serious eye irritation. |
| Inhalation | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. |
| Skin contact | May cause damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction. |
| Ingestion | : May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. |

Symptoms related to the physical, chemical and toxicological characteristics

| Eye contact | : | Adverse symptoms may include the following: pain or irritation watering redness |
|--------------|---|---|
| Inhalation | : | Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : | Adverse symptoms may include the following: irritation redness dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : | Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure

| Potential immediate effects | : Not available. |
|-------------------------------|--|
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | Not available. |
| Potential delayed effects | Not available. |
| Potential chronic health effe | <u>its</u> |
| 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 | : May cause cancer. Risk of cancer depends on duration and level of exposure. |
| Mutagenicity | : No known significant effects or critical hazards. |
| Reproductive toxicity | : May damage fertility or the unborn child. |

11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|------------------|-------------------|--------------------------------|----------------------------------|--|
| GMADUR 550 BASE GREEN 4171 | N/A | 5390.1 | N/A | 66.1 | N/A |
| barium sulfate | N/A | 2500 | N/A | N/A | N/A |
| Solvent naphtha (petroleum), light aromatic | 8400 | 3480 | N/A | N/A | N/A |
| Ethyl Benzene | 3500 | 17800 | N/A | 17.8 | N/A |
| Butyl acetate | 10768 | N/A | N/A | N/A | N/A |
| 1,2,4-Trimethylbenzene | 5000 | N/A | N/A | 18 | N/A |
| Xylene | 4300 | 1700 | N/A | 11 | N/A |
| bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 3125 | N/A | N/A | N/A | N/A |
| Cumene | 2260 | 12300 | N/A | 11 | N/A |
| propylidynetrimethanol | 14000 | 10000 | N/A | N/A | N/A |

Other 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.

12. Ecological information

2

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|------------------------------------|---|----------|
| Titanium dioxide (excluding nanoparticle) | Acute LC50 >100 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |
| Solvent naphtha (petroleum), light aromatic | Acute LC50 8.2 mg/l | Fish | 96 hours |
| Ethyl Benzene | Acute EC50 1.8 mg/l Fresh water | Daphnia | 48 hours |
| | Chronic NOEC 1 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | - |
| Butyl acetate | Acute LC50 18 mg/l | Fish | 96 hours |
| Titanium dioxide (excluding nanoparticle) | Acute LC50 >100 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> | 48 hours |
| propylidynetrimethanol | Acute LC50 >1000 mg/l | Fish | 96 hours |
| Silica | Acute EC50 2.2 g/L Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 48 hours |
| | Acute LC50 >10000 mg/l | Fish | 96 hours |
| | Chronic NOEC 12.5 mg/l Fresh water | Daphnia - <i>Daphnia magna</i> - Neonate | 21 days |

Persistence/degradability

| Product/ingredient name | Test | Result | Result | | | Inoculum |
|--|----------------------------|--------|------------------------------------|---|-------------------------------|-------------------|
| Ethyl Benzene Butyl acetate | - TEPA and OECD 301D | | adily - 10 days adily - 28 days | - | | - |
| Product/ingredient name | Aquatic half-life | 9 | Photolysis | | Biodeg | radability |
| Ethyl Benzene Butyl acetate Xylene | - - - | | - - - | | Readily Readily Readily | / |

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12. Ecological information

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|-------------------------|--------|-------------|-----------|
| Ethyl Benzene | 3.6 | 79.43 | Low |
| Butyl acetate | 2.3 | - | Low |
| 1,2,4-Trimethylbenzene | 3.63 | 120.23 | Low |
| Xylene | 3.12 | 7.4 to 18.5 | Low |
| Cumene | 3.55 | 35.48 | Low |
| propylidynetrimethanol | -0.47 | - | Low |

or critical hazards.

| Mobility in soil | |
|--|--------------------------------|
| Soil/water partition coefficient (K _{oc}) Mobility | : Not available. |
| | : Not available. |
| Other adverse effects | : No known significant effects |

13. Disposal considerations

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. 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.

14. Transport information

| UN | IMDG | ΙΑΤΑ |
|-----------------|------------------------------------|--------------------------------------|
| UN1263 | UN1263 | UN1263 |
| PAINT | PAINT | PAINT |
| 3 | 3 | 3 |
| III | III | III |
| No. | No. | No. |
| Not applicable. | Not applicable. | Not applicable. |
| | UN1263 PAINT 3 III No. | UN1263UN1263PAINTPAINT33IIIIIINo.No. |

Additional information

| Product cod Product nan | le 00318732 Date of issue 15 January 2025 Version 30 ne SIGMADUR 550 BASE GREEN 4171 |
|----------------------------|---|
| 14. Tran | nsport 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. |
| | cautions for user : 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 the event of an accident or spillage. |

Transport in bulk according : Not applicable. to IMO instruments

15. Regulatory information

Fire Service Law

| Category | Substance name/Type | Danger category | Signal word | Designated quantity |
|-------------|---------------------|--------------------|----------------------------|---------------------|
| Category IV | Class II petroleums | III | Flammable - Keep Fire Away | 1000 L |

Pollutant Release and Transfer Registers (PRTR)

| Ingredient name | % | | Reference number |
|-----------------|-------------------|---------|---------------------|
| Ethylbenzene | 6.7 6.2 3.9 | Class 1 | 691 53 80 |

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

| Ingredient name | % | | Reference number |
|-----------------|-----|--------------------------|---------------------|
| ethyl benzene | ≤10 | Special Organic Solvents | 3-3 |

Substance(s) requiring labelling

| Ingredient name | % | Status | Reference number |
|--------------------|-----------|--------|---------------------|
| ✓Itanium(IV) oxide | ≥10 - ≤20 | Listed | 191 |
| Petroleum naphtha | ≤10 | Listed | 330 |
| Trimethylbenzene | ≤10 | Listed | 404 |
| Ethylbenzene | ≤10 | Listed | 70 |
| Butyl acetate | ≤10 | Listed | 181 |
| Xylene | ≤10 | Listed | 136 |
| Crystalline silica | ≤10 | Listed | 165-2 |

Chemicals requiring notification

15. Regulatory information

| Ingredient name | % | Status | Reference number |
|---------------------|-----------|--------|---------------------|
| Imitanium(IV) oxide | ≥10 - ≤20 | Listed | 191 |
| Petroleum naphtha | ≤10 | Listed | 330 |
| Trimethylbenzene | ≤10 | Listed | 404 |
| Ethylbenzene | ≤10 | Listed | 70 |
| Butyl acetate | ≤10 | Listed | 181 |
| Xylene | ≤10 | Listed | 136 |
| Cumene | ≤10 | Listed | 138 |
| Crystalline silica | ≤10 | Listed | 165-2 |

Carcinogens based on Article 577-2 of the Ordinance on ISH

| Ingredient name | % | | Reference number |
|-----------------|-----|--------|---------------------|
| silicon dioxide | ≤10 | Listed | - |

<u>Mutagen</u>

None of the components are listed.

| Corrosive liquid Occupational Safety and | : Not listed : Inflammable, Combustible |
|---|--|
| Health Law | |
| Regulations on the Prevention of Tetraalkyl Lead Poisoning | : Not listed |
| Harmful Substances Subject to Obtaining Permission for Manufacturing | : Not listed |
| Harmful Substances, Prohibited for Manufacturing | : Not listed |
| ISHL Enforcement Order Appendix 1 - Dangerous Substances | : Inflammable, Combustible |
| Lead regulation | : Not listed |
| Organic solvents poisoning prevention | : Class 2 |

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

| Ingredient name | % | Status | Reference number |
|------------------------|-----|---------------------|---------------------|
| Ethylbenzene | ≤10 | Priority assessment | 50 |
| 1,2,4-Trimethylbenzene | ≤10 | Priority assessment | 49 |
| Xylene | ≤10 | Priority assessment | 125 |
| 1,3,5-Trimethylbenzene | ≤10 | Priority assessment | 201 |
| Cumene | ≤10 | Priority assessment | 126 |
| Toluene | ≤10 | Priority assessment | 46 |
| 1-Butanol | ≤10 | Priority assessment | 124 |
| Benzene | ≤10 | Priority assessment | 45 |
| Naphthalene | ≤10 | Priority assessment | 76 |
| | | Japan | Page: 15/17 |

| Product code 00318732 Date of issue 15 January 2025 Version | | ersion 30 | |
|---|-----|---------------------|----|
| Product name SIGMADUR 550 BASE GREEN 4171 | | | |
| 15. Regulatory information | | | |
| 2,2,4,4,6,6,8,8-Octamethyl- | ≤10 | Monitoring | 40 |
| 1,3,5,7,2,4,6,8-tetraoxatetrasilocane | | | |
| 2,6-Di-tert-butyl-4-methylphenol | ≤10 | Priority assessment | 64 |
| Acetaldehyde | ≤10 | Priority assessment | 26 |
| Formaldehyde | ≤10 | Priority assessment | 25 |
| Ethylene oxide | ≤10 | Priority assessment | 19 |
| 1,4-Dioxane | ≤10 | Priority assessment | 80 |
| Chloromethane | ≤10 | Priority assessment | 6 |

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea

None of the components are listed.

Container class

None of the components are listed.

| JSOH Carcinogen | : Group 2B |
|--|--|
| List of Specially Controlled Industrial Waste | : Not listed |
| Japan inventory | : All components are listed or exempted. |
| Road law | : Not available. |

16. Other information

| <u>History</u> | |
|--------------------------------|---|
| Date of issue/Date of revision | : 15 January 2025 |
| Date of previous issue | : 5/8/2024 |
| Version | : 30 |
| Prepared by | : EHS |
| Key to abbreviations | : ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations |

Product code 00318732 Product name SIGMADUR 550 BASE GREEN 4171

16. Other information

Indicates information that has changed from previously issued version.

Notice to reader

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.