# SAFETY DATA SHEET

SIGMADUR 550 BASE GREEN 4171



Date of issue 8 May 2024

Version 29

## 1. Product and company identification

	1 5
Product name	: SIGMADUR 550 BASE GREEN 4171
Product code	: 00318732
Product type	: Liquid.
Relevant identified uses of	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

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
GHS label elements	
Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapor. Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>May cause cancer.</li> <li>May damage fertility or the unborn child.</li> </ul>
	Janan Daga: 4/47

Product code 00318732 Product name SIGMADUR 55	Date of issue 8 May 2024 Version 29 0 BASE GREEN 4171
2. Hazards identifi	cation
	May cause damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs) Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), hearing organs, nervous system, respiratory organs) Toxic to aquatic life with long lasting effects.
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 ON SKIN: Wash with plenty of 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.

result in classification

# 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
Propenoic acid, 2-methyl-, methyl ester,	25 - <50	37237-99-3	6-1243
polymer with butyl 2-propenoate, ethenylbenzene,			
1,2-propanediol mono(2-methyl-2-propenoate)			
and 2-propenoic acid	4.5 00		
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	0.5 - <1	55349-01-4	2-3055
[12-hydroxy-			
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
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Product name SIGMADUR 550 BASE GREEN 4171

### 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 necess	ary first aid measures
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

#### Most important symptoms/effects, acute and delayed

Potential acute health e	ffects
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.
<u>Over-exposure signs/sy</u>	<u>imptoms</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

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4. First aid measures					
Indication of immediate me	Indication of immediate medical attention and special treatment needed, if necessary				
Notes to physician	<ul> <li>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.</li> </ul>				
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 <sub>2</sub> , 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, protective 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.

#### Product name SIGMADUR 550 BASE GREEN 4171

### 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Pflanium dioxide (excluding nanoparticle)       Japan Society for Occupational Health (Japan, 5/2023), [titanium dioxide] OEL-M: 1.5 mg/m² (as TI) 8 hours. Form: Respirable particulate matter Ustan Society for Occupational Health (Japan, 5/2023), [titanium dioxide (inanoparticle) DEL-M: 0.3 mg/m² 8 hours. Form: Total particulate matter Japan Society for Occupational Health (Japan, 5/2023), [Class 1 dusts (Activated charcoal, Alumina, Aluminum, Pentonite, Diatomite, Graphite, Kaolinium, Bentonite, Diatomite, Stangan Society for Occupational Health (Japan, Sf2023), DEL-M: 20 pm 8 hours. OEL-M: 20 pm 8 hours. OEL-M: 20 pm 8 hours. OEL-M: 20 pm 8 hours. OEL-M: 20 pm 8 hours. Del-M: 20 pm 8 hours. OEL-M: 20 pm 8 hours. <th>Ingredient name</th> <th>Exposure limits</th>	Ingredient name	Exposure limits
(Japan, 5/2023).Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cider)] OEL-M: 0.5 mg/m 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2mg/m 8 hours. Form: Total dust (Class 1 Dust) OEL-M: 2mg/m 8 hours. Form: Total dust (Class 1 Dust) OEL-M: 2mg/m 8 hours. OEL-M: 20 gpm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. OEL-M: 120 mpm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. OEL-M: 100 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 20 ppm 8 hours. OEL-M: 100 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 150 ppm 8 hours. OEL-M: 150 ppm 8 hours. OEL-M: 100 ppm 8 hours. OEL-M: 150 ppm 8 hours. OEL-M: 25 ppm 8 hours. OEL-M: 100 ppm 8 hours.	r ftanium dioxide (excluding nanoparticle)	(Japan, 5/2023). [titanium dioxide] OEL-M: 1.5 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Respirable particulate matter OEL-M: 2 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Total particulate matter Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide (nanoparticle)] OEL-M: 0.3 mg/m <sup>3</sup> 8 hours. Form:
(Japan, 5/2023). Absorbed through skin.         OEL-M: 37 mg/m³ 8 hours.         Industrial Safety and Health Act (Japan, 6/2020).         TWA: 20 ppm 8 hours.         Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 100 ppm 8 hours.         Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 100 ppm 8 hours.         Industrial Safety and Health Act (Japan, 6/2020).         TWA: 200 ppm 8 hours.         Industrial Safety and Health Act (Japan, 6/2020).         TWA: 150 ppm 8 hours.         Industrial Safety and Health Act (Japan, 6/2020).         TWA: 150 ppm 8 hours.         Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 120 mg/m³ 8 hours.         OEL-M: 25 ppm 8 hours.         OEL-M: 25 ppm 8 hours.         Japan Society for Occupational Health (Japan, 6/2020).         Xylene         Cumene         Cumene         Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 20 ppm 8 hours.         Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 20 ppm 8 hours.         Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 20 ppm 8 hours.         OEL-M: 20 ppm 8 hours.         OEL-M: 20 ppm 8 hours.         OE	Talc (containing no asbestos or quartz)	(Japan, 5/2023). [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)] OEL-M: 0.5 mg/m <sup>3</sup> 8 hours. Form: Respirable dust (Class 1 Dust) OEL-M: 2 mg/m <sup>3</sup> 8 hours. Form: Total dust
Butyl acetate       Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 475 mg/m³ 8 hours.       OEL-M: 475 mg/m³ 8 hours.         Industrial Safety and Health Act (Japan, 6/2020).       TWA: 150 ppm 8 hours.         Industrial Safety for Occupational Health (Japan, 5/2023).       OEL-M: 120 mg/m³ 8 hours.         OEL-M: 120 mg/m³ 8 hours.       OEL-M: 25 ppm 8 hours.         Xylene       Industrial Safety and Health Act (Japan, 6/2020).         Xylene       Industrial Safety and Health Act (Japan, 6/2020).         Cumene       Industrial Safety and Health Act (Japan, 6/2020).         Cumene       Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 217 mg/m³ 8 hours.       OEL-M: 217 mg/m³ 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hour	Ethyl Benzene	(Japan, 5/2023). Absorbed through skin. OEL-M: 87 mg/m <sup>3</sup> 8 hours. OEL-M: 20 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020).
1,2,4-Trimethylbenzene       Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 120 mg/m³ 8 hours.       OEL-M: 25 ppm 8 hours.         Xylene       Industrial Safety and Health Act (Japan, 6/2020). [xylene]         TWA: 50 ppm 8 hours.       Japan Society for Occupational Health (Japan, 5/2023).         Cumene       OEL-M: 217 mg/m³ 8 hours.         Cumene       Japan Society for Occupational Health (Japan, 5/2023).         OEL-M: 50 ppm 8 hours.       OEL-M: 50 ppm 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 217 mg/m³ 8 hours.         OEL-M: 50 mg/m³ 8 hours.       OEL-M: 50 mg/m³ 8 hours.         OEL-M: 50 mg/m³ 8 hours.       OEL-M: 50 mg/m³ 8 hours.         OEL-M: 50 mg/m³ 8 hours.       OEL-M: 50 mg/m³ 8 hours.         OEL-M: 50 mg/m³ 8 hours.       OEL-M: 50 mg/m³ 8 hours.         OEL-M: 50 mg/m³ 8 hours.       OEL-M: 50 mg/m³ 8 hours.         OEL-M: 50 mg/m³ 8 hours.       OEL-M: 50 mg/m³ 8 hours.         OEL-M: 10 ppm 8 hours.       OEL-M: 10 ppm 8 hours.         Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 4/2023).	Butyl acetate	Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 475 mg/m <sup>3</sup> 8 hours. OEL-M: 100 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020).
XyleneIndustrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m³ 8 hours. OEL-M: 217 mg/m³ 8 hours. Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 50 mg/m³ 8 hours. OEL-M: 10 ppm 8 hours. Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 4/2023).	1,2,4-Trimethylbenzene	Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 120 mg/m <sup>3</sup> 8 hours.
Cumene Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 50 mg/m <sup>3</sup> 8 hours. OEL-M: 10 ppm 8 hours. Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 4/2023).	Xylene	Industrial Safety and Health Act (Japan, 6/2020). [xylene] TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). OEL-M: 50 ppm 8 hours.
	Cumene	Japan Society for Occupational Health (Japan, 5/2023). Absorbed through skin. OEL-M: 50 mg/m <sup>3</sup> 8 hours. OEL-M: 10 ppm 8 hours. Technical Guideline Concerning the Applications, etc. of Concentration Standard for Preventing Health Hazards (Japan, 4/2023).

FIC	Juuct Hame SIGIMADOR 550 BASE GREEN 4171
8	Exposure controls/personal protection

Titanium dioxide (excluding r	anoparticle)	TWA: 10 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide] OEL-M: 1.5 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Respirable particulate matter OEL-M: 2 mg/m <sup>3</sup> , (as Ti) 8 hours. Form: Total particulate matter Japan Society for Occupational Health (Japan, 5/2023). [titanium dioxide (nanoparticle)] OEL-M: 0.3 mg/m <sup>3</sup> 8 hours. Form: nanoparticle		
Recommended monitoring procedures		ropriate monitoring standards. Reference to nethods for the determination of hazardous		
Appropriate engineering controls	or other engineering controls to ke below any recommended or statut	b. Use process enclosures, local exhaust ventilation sep worker exposure to airborne contaminants cory limits. The engineering controls also need to ations below any lower explosive limits. Use nent.		
Environmental exposure controls	they comply with the requirements cases, fume scrubbers, filters or e	missions from ventilation or work process equipment should be checked to ensure ney comply with the requirements of environmental protection legislation. In some ases, fume scrubbers, filters or engineering modifications to the process equipment vill be necessary to reduce emissions to acceptable levels.		
Individual protection measu	res			
Hygiene measures	eating, smoking and using the lava Appropriate techniques should be Contaminated work clothing shoul	horoughly after handling chemical products, before atory and at the end of the working period. used to remove potentially contaminated clothing. d not be allowed out of the workplace. Wash ing. Ensure that eyewash stations and safety ion location.		
Eye protection	: Chemical splash goggles.			
Skin protection				
Hand protection	be worn at all times when handling this is necessary. Considering the check during use that the gloves a should be noted that the time to be different for different glove manufa	oves complying with an approved standard should g chemical products if a risk assessment indicates a parameters specified by the glove manufacturer, are still retaining their protective properties. It reakthrough for any glove material may be acturers. In the case of mixtures, consisting of a time of the gloves cannot be accurately		
Gloves	: butyl rubber			
Body protection	being performed and the risks invo before handling this product. Whe wear anti-static protective clothing	the body should be selected based on the task olved and should be approved by a specialist en there is a risk of ignition from static electricity, . For the greatest protection from static e anti-static overalls, boots and gloves.		
Other skin protection		itional skin protection measures should be performed and the risks involved and should be andling this product.		

### 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	37.8°F)	
Relative density	: 1.37		
Solubility/icc)	Media	Result	
Solubility(ies)	cold water	Not soluble	

10. Stability and reactivity				
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	-
LD50 Dermal	Rabbit	3.48 g/kg	-
		0 0	
LD50 Oral	Rat	8400 mg/kg	-
LC50 Inhalation Vapor	Rat		4 hours
LD50 Dermal	Rabbit		-
LD50 Oral	Rat		-
LC50 Inhalation Vapor	Rat		4 hours
	Rat		4 hours
LD50 Dermal	Rabbit		-
LD50 Oral	Rat		-
LC50 Inhalation Vapor	Rat		4 hours
LD50 Oral	Rat		-
LD50 Dermal	Rabbit		-
LD50 Oral	Rat		-
LD50 Oral	Rat		-
		00	
LC50 Inhalation Vapor	Rat	39000 mg/m <sup>3</sup>	4 hours
LD50 Dermal	Rabbit		-
LD50 Oral	Rat		-
LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
		-	
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat	>5000 mg/kg	-
LD50 Dermal	Rabbit	10 g/kg	-
LD50 Oral	Rat	14000 mg/kg	-
LD50 Dermal	Rabbit	>5000 mg/kg	-
LD50 Oral	Rat - Male,	>5000 mg/kg	-
	Female		
	LD50 Oral LD50 Dermal LD50 Oral LC50 Inhalation Vapor LD50 Dermal LD50 Oral LC50 Inhalation Vapor LC50 Inhalation Vapor LD50 Dermal LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Oral LD50 Dermal LD50 Dermal LD50 Dermal LD50 Dermal LD50 Dermal LD50 Dermal LD50 Dermal LD50 Dermal LD50 Oral LD50 Dermal LD50 Dermal LD50 Oral LD50 Dermal LD50 Dermal LD50 Oral LD50 Dermal LD50 Dermal L	LD50 Oral LD50 DermalRat RabbitLD50 Oral LC50 Inhalation VaporRat Rat LD50 DermalLD50 Oral LD50 OralRatLC50 Inhalation VaporRatLC50 Inhalation VaporRatLC50 Inhalation VaporRatLD50 DermalRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 DermalRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 OralRatLD50 DermalRatLD50 Derma	LD50 Oral LD50 DermalRat Rabbit>5000 mg/kg 3.48 g/kgLD50 DermalRatRabbit3.48 g/kgLD50 Oral LD50 DermalRat17.8 mg/l Rat17.8 mg/l RatLD50 Oral LD50 OralRat3.5 g/kgLD50 Oral LD50 OralRat3.5 g/kgLC50 Inhalation Vapor RatRat2000 ppmLD50 Dermal LD50 DermalRat2000 ppmLD50 Oral LD50 DermalRat17.600 mg/kgLD50 Oral LD50 DermalRat10.768 g/kgLD50 Oral LD50 OralRat10.768 g/kgLD50 Oral LD50 OralRat5 g/kgLD50 Oral LD50 OralRat5 g/kgLD50 Oral LD50 OralRat39000 mg/m³LD50 Oral LD50 OralRat39000 mg/m³LD50 Oral LD50 OralRat39000 mg/m³LD50 Dermal LD50 OralRat2260 mg/kgLD50 Dermal LD50 OralRat2260 mg/kgLD50 Dermal LD50 OralRat25000 mg/kgLD50 Dermal LD50 OralRat25000 mg/kgLD50 Dermal LD50 OralRat10 g/kgLD50 Oral LD50 OralRat14000 mg/kgLD50 Oral LD50 OralRat14000 mg/kgLD50 Oral<

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	Skin - Moderate irritant	Rabbit		24 hours 500 mg	-

#### **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.

## Product name SIGMADUR 550 BASE GREEN 4171

### **11. Toxicological information**

#### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
✓alc (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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TT. TOXICOLOGI	carmonnation
Eye contact	: Causes serious eye irritation.
Inhalation	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
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	p v	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	n d d u r	Adverse symptoms may include the following: nausea or vomiting neadache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight ncrease in fetal deaths skeletal malformations
Skin contact	ii r d c r ii	Adverse symptoms may include the following: rritation redness dryness cracking reduced fetal weight ncrease in fetal deaths skeletal malformations
Ingestion	r ir	Adverse symptoms may include the following: educed fetal weight ncrease in fetal deaths skeletal malformations

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

<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	1	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ects	<u>8</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	1	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)
SIGMADUR 550 BASE GREEN 4171	N/A	5391.1	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**

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#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
tanium 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		Dose		Inoculum
Ethyl Benzene Butyl acetate	- TEPA and OECD 301D		adily - 10 days adily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
Ethyl Benzene Butyl acetate Xylene			- - -		Readil Readil Readil	ý

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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

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
Other adverse effects	: No known significant effects or critical hazards.

### 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
UN number	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT
Transport hazard class(es)	3	3	3
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

Product cod Product nam	e 00318732 ne SIGMADUR 550 BASE GREEN 4171	Date of issue 8 May 2024	Version 29
14. Tran	sport information		
UN	: This class 3 viscous liquid is not sub 2.3.2.5.1.	ject to regulation in packagings up to 45	50 L according to
IMDG	: This class 3 viscous liquid is not sub 2.3.2.5.	pject to regulation in packagings up to 45	50 L according to
IATA	: None identified.		
	autions for user : Transport within user	sure that persons transporting the produ	

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		Flammable - Keep Fire Away	1000 L

#### Pollutant Release and Transfer Registers (PRTR)

Ingredient name	%	Status	Reference number
rimethylbenzene	6.7	Class 1	691
Ethylbenzene	6.2		53
Xylene	3.9		80

#### **Industrial Safety and Health Act**

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

Ingredient name	%		Reference number
₽ťhyl 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
✓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
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
sílicon dioxide	≤10	Listed	-

#### <u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Inflammable, Combustible
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
<b>E</b> thylbenzene	≤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
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Product code 00318732	Date	Date of issue 8 May 2024	
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 assessmen	t 64
Acetaldehyde	≤10	Priority assessmen	t 26
Formaldehyde	≤10	Priority assessmen	t 25
Ethylene oxide	≤10	Priority assessmen	t 19
1,4-Dioxane	≤10	Priority assessmen	
Chloromethane	≤10	Priority assessmen	

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	: Not determined.
Road law	: Not available.

### **16. Other information**

History	
Date of issue/Date of revision	: 8 May 2024
Date of previous issue	: 3/14/2024
Version	: 29
Prepared by	: EHS
Key to abbreviations	<ul> <li>ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway</li> <li>ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road</li> <li>ATE = Acute Toxicity Estimate</li> <li>BCF = Bioconcentration Factor</li> <li>GHS = Globally Harmonized System of Classification and Labelling of Chemicals</li> <li>IATA = International Air Transport Association</li> <li>IMDG = International Maritime Dangerous Goods</li> <li>LogPow = logarithm of the octanol/water partition coefficient</li> <li>MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)</li> <li>RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail</li> <li>UN = United Nations</li> </ul>

### 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.