# **SAFETY DATA SHEET**



SIGMADUR 520 BASE BASE Z (LEAD FREE COLOURS)

#### Date of issue 15 January 2025

Version 29.01

## 1. Product and company identification

1. I roduct and company identification		
Product name	: SIGMADUR 520 BASE BASE Z (LEAD FREE COLOURS)	
Product code	: 00202815	
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 **GHS Classification** : FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A **CARCINOGENICITY - Category 1A** TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1 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** : Flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. May cause cancer. May damage fertility or the unborn child. Causes damage to organs. (central nervous system (CNS), kidneys, liver, respiratory organs)

Japan

### 2. Hazards identification

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.
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 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	1	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 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
Titanium dioxide (excluding nanoparticle)	15 - <20	13463-67-7	1-558; 5-5225
Xylene	12.5 - <15	1330-20-7	3-3; 3-60
Talc (containing no asbestos or quartz)	7 - <10	14807-96-6	Not available.
Solvent naphtha (petroleum), light aromatic	5 - <7	64742-95-6	Not available.
Propylene glycol monomethyl ether acetate	5 - <7	108-65-6	2-3144
1,2,4-Trimethylbenzene	3 - <5	95-63-6	3-3427; 3-7
barium sulfate	3 - <5	7727-43-7	1-89
3-ethyltoluene	2 - <3	620-14-4	3-15
Ethyl Benzene	2 - <3	100-41-4	3-28; 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
carbon black	0.2 - <0.5	1333-86-4	5-3328; 5-5222
Silica	0.1 - <0.2	7631-86-9	1-548
[1,3,8,16,18,24-hexabromo-	0.1 - <0.2	14302-13-7	5-3318
2,4,9,10,11,15,17,22,23,25-decachloro-29H,31H- phthalocyaninato(2-)-N29,N30,N31,N32]copper			
Crystalline silica (quartz)	0.1 - <0.2	14808-60-7	1-548

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.

## 3. Composition/information on ingredients

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

SUB codes represent substances without registered CAS Numbers.

### 4. First aid measures

#### Description of necessary 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.</li> <li>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	<ul> <li>Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.</li> </ul>
Skin contact	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	<ul> <li>Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.</li> </ul>
<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
Indication of immediate	<u>medical attention and special treatment needed, if necessary</u>
Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

4. First aid measures	
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".
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

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.	

### 7. Handling and storage

Precautions for safe handling	: Put on appropriate personal protective equipment (see Section 8). 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	e : 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 the protected from direct sunlight in a dry.

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/m³ (as Ti). Form: Respirable particulate matter. OEL-M 8 hours: 2 mg/m³ (as Ti). Form: Total particulate matter. Japan Society for Occupational Health (Japan, 5/2023) [titanium dioxide (nanoparticle)] OEL-M 8 hours: 0.3 mg/m³. Form: nanoparticle.
	Japan Page: 5/10

### 8. Exposure controls/personal protection

-		1	
xylene		Japan Society for Occupational Health (Japan, 5/2023)	
Talc , not containing asbesti	form fibres	OEL-M 8 hours: 50 ppm. OEL-M 8 hours: 217 mg/m <sup>3</sup> . Industrial Safety and Health Act (Japan, 6/2020) [xylene] TWA 8 hours: 50 ppm. Japan Society for Occupational Health (Japan, 5/2023) [Class 1 dusts (Activated charcoal, Alumina, Aluminium, Bentonite, Diatomite, Graphite, Kaolinite, Pagodite, Pyrites, Pyrite cinder)]	
1.0.4 trimethylhenzene		OEL-M 8 hours: 2 mg/m <sup>3</sup> . Form: Total dust (Class 1 Dust). OEL-M 8 hours: 0.5 mg/m <sup>3</sup> . Form: Respirable dust (Class 1 Dust).	
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 <sup>3</sup> .	
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 <sup>3</sup> . Industrial Safety and Health Act (Japan, 6/2020) TWA 8 hours: 20 ppm.	
	2,4,9,10,11,15,17,22,23,25-decachloro- 2-)-N29,N30,N31,N32]copper	Japan Society for Occupational Health (Japan, 5/2023) [Copper and compounds] Skin sensitizer.	
crystalline silica, respirable p	bowder (<10 microns)	Japan Society for Occupational Health (Japan, 5/2023) [Respirable crystalline silica] OEL-C: 0.03 mg/m <sup>3</sup> . Form: Respirable dust.	
Recommended monitoring procedures		priate monitoring standards. Reference to those for the determination of hazardous	
Appropriate engineering controls	or other engineering controls to keep below any recommended or statutor	Use process enclosures, local exhaust ventilation o worker exposure to airborne contaminants y limits. The engineering controls also need to ons below any lower explosive limits. Use nt.	
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.		
Individual protection measu	<u>lres</u>		
Hygiene measures	eating, smoking and using the lavato Appropriate techniques should be us	roughly after handling chemical products, before bry and at the end of the working period. sed to remove potentially contaminated clothing. reusing. Ensure that eyewash stations and station location.	
Eye protection	: Chemical splash goggles.		

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### 8. Exposure controls/personal protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
: 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.		
Color	: Various		
Odor	: Aromatic.		
Boiling point	: >37.78°C (>100°F)		
Flash point	: Closed cup: 34°C (9	3.2°F)	
Relative density	: 1.28		
Solubility(ies)	Media	Result	
Colubility(100)	cold water	Not soluble	
Viscosity	: 60 - 100 s (ISO 6mm	ח)	

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.			
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### 10. Stability and reactivity

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Internation the second	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	-
Propylene glycol monomethyl ether 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 <sup>3</sup>	4 hours
· · ·	LD50 Oral	Rat	5 g/kg	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
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	-
Silica	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
[1,3,8,16,18,24-hexabromo- 2,4,9,10,11,15,17,22,23,25-decachloro- 29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32] copper	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>16000 mg/kg	-

#### Irritation/Corrosion

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

#### Sensitization

Not available.

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### Reproductive toxicity

## 11. Toxicological information

#### Not available.

**Teratogenicity** 

Not available.

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

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

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

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

#### Aspiration hazard

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

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## **11. Toxicological information**

Information on the likely routes of exposure	: Not available.
Potential acute health effe	<u>cts</u>
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	: Causes damage to organs following a single exposure in contact with skin. Causes skin irritation. Defatting to the skin.
Ingestion	: Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Symptoms related to the p	hysical, 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
Delayed and initiadate			

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 eff	fects
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.
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)
MGMADUR 520 BASE BASE Z (LEAD FREE COLOURS)	N/A	7278.7	N/A	61.1	N/A
Xylene	4300	1700	N/A	11	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
Propylene glycol monomethyl ether acetate	6190	N/A	N/A	30	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	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
Propylene glycol monomethyl ether acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	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	-
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
[1,3,8,16,18,24-hexabromo- 2,4,9,10,11,15,17,22,23,25-decachloro- 29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32] copper	Acute LC50 >100 mg/l	Fish	96 hours

#### Persistence/degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Propylene glycol monomethyl ether acetate	-	83 % - Readily - 28 days	-	-
Ethyl Benzene	-	79 % - Readily - 10 days	-	-

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Product name SIGMADUR 5	Product name SIGMADUR 520 BASE BASE Z (LEAD FREE COLOURS)					
12. Ecological information						
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability			
	-	-	Readily Readily Readily			

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
Propylene glycol monomethyl ether acetate	1.2	-	Low
1,2,4-Trimethylbenzene	3.63	120.23	Low
3-ethyltoluene Ethyl Benzene	3.98 3.6	- 79.43	Low Low

#### Mobility in soil

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	ATA		
UN number	UN1263	UN1263	UN1263		
UN proper shipping name	PAINT	PAINT	PAINT		
Transport hazard class(es)	3	3	3		
Packing group	III				
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Product code 00 Product name SI	)202815 GMADUR 520 BASE BASE Z (LEAD	Date of issue 15 Jan FREE COLOURS)	nuary 2025 Version 29.01
14. Transp	ort information		
Environmental hazards	No.	No.	No.
Marine pollutan substances	t Not applicable.	Not applicable.	Not applicable.
Additional inforr	nation		
UN	: This class 3 viscous liquid is not si 2.3.2.5.1.	ubject to regulation in packaging	gs up to 450 L according to
IMDG	: This class 3 viscous liquid is not si 2.3.2.5.	ubject to regulation in packaging	gs up to 450 L according to
ΙΑΤΑ	: None identified.		
Special precauti	ons for user : Transport within us upright and secure. E the event of an accid	Ensure that persons transporting	
Transport in bul to IMO instrume	• • • •		

## 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	%	Status	Reference number
Xylene Trimethylbenzene	14	Class 1 Class 1	80 691
Ethylbenzene	2.5	Class 1	53

#### **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
Xylene	≥10 - ≤20	Listed	136
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤10	Listed	404
Ethylbenzene	≤10	Listed	70
Crystalline silica	≤10	Listed	165-2

#### **Chemicals requiring notification**

### **15. Regulatory information**

Ingredient name	%	Status	Reference number
✓tanium(IV) oxide	≥10 - ≤20	Listed	191
Xylene	≥10 - ≤20	Listed	136
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤10	Listed	404
Ethylbenzene	≤10	Listed	70
Crystalline silica	≤10	Listed	165-2
Copper and its compounds	≤10	Listed	379
Carbon black	≤10	Listed	130

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

Ingredient name	%	Status	Reference number
silicon dioxide	≤10	Listed	-
quartz	≤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>X</b> ylene	≥10 - ≤20	Priority assessment	125
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
Ethylbenzene	≤10	Priority assessment	50
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
Cumene	≤10	Priority assessment	126
Salt of N,N,N-trimethyldodecane-1-aminium	≤10	Priority assessment	229
		Japan	Page: 14/16

Product code 00202815 Product name SIGMADUR 5	20 BASE BASE Z (LEAD		•	ersion 29.01
Product name SIGMADUR 520 BASE BASE Z (LEAD FREE COLOURS) 15. Regulatory information				
2,6-Di-tert-butyl-4-methylpher 1-Butanol N,N-Dimethyldodecylamine		≤10 ≤10 ≤10	Priority assessment Priority assessment Priority assessment	64 124 165
High Pressure Gas Control Law	: Not available.			
Explosives Control Law None of the components are I	listed.			
Law concerning prevention of pollution of the ocean	: Not available.			
<u>Maritime Safety Law</u> <u>Notification Regulating Tran</u> None of the components are		<u>s Materials by S</u>	<u>}ea</u>	
<u>Container class</u> None of the components are	listed.			
JSOH Carcinogen	: Group 1			
List of Specially Controlled Industrial Waste	: Not listed			
	: Not determined.			
Japan inventory	· Not determined.			

<u>History</u>	
Date of issue/Date of revision	: 15 January 2025
Date of previous issue	: 11/26/2024
Version	: 29.01
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 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>

✓ Indicates information that has changed from previously issued version.

#### Notice to reader

### 16. Other information

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.