SAFETY DATA SHEET

SIGMADUR 520 BASE RAL 5017



Date of issue 15 January 2025

Version 2

1. Product and company identification

Product name	: SIGMADUR 520 BASE RAL 5017
Product code	: 00276301
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 2 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. May cause an allergic skin reaction. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. May damage fertility or the unborn child.

Product code 00276301	Date of issue 15 January 2025 Version 2	
Product name SIGMADUR 520 BASE RAL 5017		
2. Hazards identifi	cation	
	Causes 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 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 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
barium sulfate	25 - <50	7727-43-7	1-89
2-Propenoic acid, homopolymer	20 - <25	9003-01-4	6-898
Xylene	12.5 - <15	1330-20-7	3-3; 3-60
Talc (containing no asbestos or quartz)	10 - <12.5	14807-96-6	Not available.
Ethyl Benzene	5 - <7	100-41-4	3-28; 3-60
Propylene glycol monomethyl ether acetate	5 - <7	108-65-6	2-3144
Solvent naphtha (petroleum), light aromatic	3 - <5	64742-95-6	Not available.
1,2,4-Trimethylbenzene	2 - <3	95-63-6	3-3427; 3-7
Titanium dioxide (excluding nanoparticle)	2 - <3	13463-67-7	1-558; 5-5225
Octadecanamide, N,N'-1,6-hexanediylbis	0.5 - <1	55349-01-4	2-3055
[12-hydroxy-			
phthalocyanine blue	0.5 - <1	147-14-8	5-3299; 5-3300;
			5-5216
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.2 - <0.5	41556-26-7	5-5501

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.

Product name SIGMADUR 520 BASE RAL 5017

3. Composition/information on ingredients

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Eye contact : Remove contact lenses, irrigate copicusly with clean, fresh water, holding the eyelid say and 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 respiration 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 finansers. 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/affects. acute and delayed Potential acute health effects Eye contact : Causes serious eye inflation. Inhalation : Causes demage to organs following a single exposure in contact with skin. Causes skin inflation. Defating to the skin. May cause an allergic skin reaction. Ingestion : Causes damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression. Over-exposure signs/symptoms : Adverse symptoms may include the following: pain or intation watering headache drowsiness/fatigue dizziness/vertigo unconscicusness in fetal deaths increase in fetal deaths increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation redeness in fetal deaths skeletal malformations Indisestion of immediate medical attention and spec	Description of necessary fire	<mark>st a</mark> i	id measures
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	Notes to physician	:	
	Specific treatments	:	

4. First aid measures

Protection of first-aiders

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

See toxicological information (Section 11)

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 nitrogen 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 : Put on appropriate personal protective equipment (see Section 8). Persons with a handling 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
x ylene	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.
c , not containing asbestiform fibres Japan Society for Occupational He (Japan, 5/2023) [Class 1 dusts (Ac	
	Japan Page: 5/15

8. Exposure controls/personal protection

		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)
1,2,4-trimethylbenzene		TWA 8 hours: 20 ppm. Japan Society for Occupational Health (Japan, 5/2023) OEL-M 8 hours: 25 ppm.
titanium dioxide		OEL-M 8 hours: 120 mg/m ³ . 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.
29H,31H-phthalocyaninato(2	2-)-N29,N30,N31,N32 copper	Japan Society for Occupational Health (Japan, 5/2023) [Copper and compounds] Skin sensitizer.
Recommended monitoring procedures	: Reference should be made to approprinational guidance documents for meth substances will also be required.	ate monitoring standards. Reference to ods for the determination of hazardous
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.	
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.	
ndividual protection measu	ires	
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 <u>Skin protection</u>	: Chemical splash goggles.	

8. Exposure controls/personal protection

Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Gloves	: butyl rubber
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
Other skin protection	 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.
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

<u>Appearance</u>						
Physical state	: Liquid.					
Odor	: Characteristic.					
Boiling point	: >37.78°C (>100°F)					
Flash point	: Closed cup: 28°C (82.4°F)					
Relative density	: 1.39					
Solubility/ico)	Media	Result				
Solubility(ies)	. cold water					

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 nitrogen oxides sulfur oxides metal oxide/oxides

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
2-Propenoic acid,	LD50 Dermal	Rabbit	3 g/kg	-
homopolymer				
	LD50 Oral	Rat	2500 mg/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/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	-
Propylene glycol	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
monomethyl ether acetate				
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
0	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m ³	4 hours
•	LD50 Oral	Rat	5 g/kg	-
Titanium dioxide (excluding nanoparticle)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
, ,	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
phthalocyanine blue	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5.1 g/kg	-
bis(1,2,2,6,6-pentamethyl- 4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/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

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

11. Toxicological information

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

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
barium sulfate	Category 1	-	respiratory organs
2-Propenoic acid, homopolymer	Category 1	-	respiratory organs
Xylene	Category 1	-	nervous system, 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
Titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs

Aspiration hazard

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

Information on the likely : Not available. routes of exposure

Potential acute health	effects
Eye contact	: Causes serious eye irritation.
Inhalation	 Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes 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	: Causes 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

11. Toxicological information

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 effect	ts	and also chronic effects from short and long term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
<u>Long term exposure</u>		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>S</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	:	Suspected of causing 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.

Numerical measures of toxicity Acute toxicity estimates

11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
GMADUR 520 BASE RAL 5017	N/A	3008.6	N/A	56.4	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
2-Propenoic acid, homopolymer	2500	3000	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
Ethyl Benzene	3500	17800	N/A	17.8	N/A
Propylene glycol monomethyl ether acetate	6190	N/A	N/A	30	N/A
Solvent naphtha (petroleum), light aromatic	8400	3480	N/A	N/A	N/A
1,2,4-Trimethylbenzene	5000	N/A	N/A	18	N/A
phthalocyanine blue	5100	N/A	N/A	N/A	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
Ethyl Benzene	Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Daphnia Daphnia - Ceriodaphnia dubia	48 hours -
Propylene glycol monomethyl ether acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
phthalocyanine blue	Acute LC50 >100 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Test	Result		Dose		Inoculum
Ethyl Benzene Propylene glycol monomethyl ether acetate	-		idily - 10 days idily - 28 days	-		-
Product/ingredient name	Aquatic half-life)	Photolysis		Biodeg	gradability
▼ylene Ethyl Benzene Propylene glycol monomethyl ether acetate			-		Readily Readily Readily	/

Bioaccumulative potential

Product name SIGMADUR 520 BASE RAL 5017

12. Ecological information

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Product/ingredient name	LogPow	BCF	Potential
X ylene	3.12	7.4 to 18.5	Low
Ethyl Benzene	3.6	79.43	Low
Propylene glycol	1.2	-	Low
monomethyl ether acetate			
1,2,4-Trimethylbenzene	3.63	120.23	Low
phthalocyanine blue	6.6	-	High

<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
	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

UN	: None identified.
IMDG	: None identified.

Product name SIGMADUR 520 BASE RAL 5017

14. Transport information

ΙΑΤΑ

: None identified.

Special precautions 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 in 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			
Polymer of acrylic acid	23	Class 1	565
Xylene	15	Class 1	80
Ethylbenzene	5.1	Class 1	53
Trimethylbenzene	3.0	Class 1	691

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
▼yleneEthylbenzenePetroleum naphthaTrimethylbenzeneTitanium(IV) oxide	≥10 - ≤20	Listed	136
	≤10	Listed	70
	≤10	Listed	330
	≤10	Listed	404
	≤10	Listed	191

Chemicals requiring notification

Ingredient name	%	Status	Reference number
X ylene	≥10 - ≤20	Listed	136
Ethylbenzene	≤10	Listed	70
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤10	Listed	404
Titanium(IV) oxide	≤10	Listed	191
Copper and its compounds	≤10	Listed	379

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

None of the components are listed.

Mutagen

15. Regulatory information

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
Polymer of acrylic acid	≥20 - ≤30	Priority assessment	234
Xylene	≥10 - ≤20	Priority assessment	125
Ethylbenzene	≤10	Priority assessment	50
1,2,4-Trimethylbenzene	≤10	Priority assessment	49
1,3,5-Trimethylbenzene	≤10	Priority assessment	201
Cumene	≤10	Priority assessment	126
Toluene	≤10	Priority assessment	46
Benzene	≤10	Priority assessment	45
Naphthalene	≤10	Priority assessment	76
2,6-Di-tert-butyl-4-methylphenol	≤10	Priority assessment	64
2,2,4,4,6,6,8,8-Octamethyl-	≤10	Monitoring	40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane		_	
Salt of N,N,N-trimethyldodecane-1-aminium	≤10	Priority assessment	229
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
1-Butanol	≤10	Priority assessment	124
N,N-Dimethyldodecylamine	≤10	Priority assessment	165

High Pressure Gas Control : Not available.

Law

Explosives Control Law

None of the components are listed.

15. Regulatory information

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

<u>History</u>	
Date of issue/Date of revision	: 15 January 2025
Date of previous issue	: 3/5/2024
Version	: 2
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

V 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.