SAFETY DATA SHEET

SIGMADUR 550 BASE L(D)



Date of issue 6 May 2020

Version 3

1. Product and company identification

Product name : SIGMADUR 550 BASE L(D)

Product code : 00392462 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

Tel: +81 78 574 2777 Fax: +81 78 576 0035

Emergency telephone

number

: 078 574 2777

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) (Respiratory tract

irritation) - Category 3

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -

Category 3

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1

AQUATIC HAZARD (ACUTE) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 2

GHS label elements

Hazard pictograms :









Signal word : Danger

Japan Page: 1/16

Product name SIGMADUR 550 BASE L(D)

2. Hazards identification

Hazard statements

: Mammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory 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

Causes damage to organs through prolonged or repeated exposure. (nervous system, respiratory system)

Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

: Øbtain special instructions before use. Wear protective gloves. Wear protective clothing. Wear eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. 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. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. 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 Disposal

- : Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- : 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. ENCS number : Not available.

Ingredient name	%	CAS number	ENCS
parium sulfate	15 - <20	7727-43-7	1-89
Xylene	15 - <20	1330-20-7	3-3; 3-60
titanium dioxide (nanoparticle)	10 - <12.5	13463-67-7	1-558; 5-5225
Solvent naphtha (petroleum), light aromatic	7 - <10	64742-95-6	Not available.
1,2,4-Trimethylbenzene	3 - <5	95-63-6	3-3427; 3-7
Propylene glycol methyl ether acetate	3 - <5	108-65-6	2-3144
ethyl benzene	2 - <3	100-41-4	3-28; 3-60
carbon black animal or vegetable origin	0.2 - < 0.5	1333-86-4	5-3328; 5-5222
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32	0.2 - < 0.5	147-14-8	5-3299; 5-3300;
copper			5-5216
Cumene	0.1 - < 0.2	98-82-8	3-22
cristobalite (>10 microns)	0.1 - < 0.2	14464-46-1	1-548
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.1 - < 0.2	41556-26-7	5-5501
Silica silicon dioxide containing crystalline and amorphous	0.1 - <0.2	7631-86-9	1-548

Japan Page: 2/16

Product name SIGMADUR 550 BASE L(D)

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 necessary first aid measures

Eye contact: Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids

apart for at least 10 minutes and seek immediate medical advice.

Inhalation : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is

irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by

trained personnel.

Skin contact: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and

water or use recognized skin cleanser. Do NOT use solvents or thinners.

Ingestion: If swallowed, seek medical advice immediately and show this container or label.

Keep person warm and at rest. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

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.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain or irritation watering

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

redness

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

Japan Page: 3/16

Product name SIGMADUR 550 BASE L(D)

4. First aid measures

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician

: Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

Specific treatments

: No specific treatment.

Protection of first-aiders

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

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use dry chemical, CO₂, water spray (fog) or foam.

: 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.

Japan Page: 4/16

Product name SIGMADUR 550 BASE L(D)

6. Accidental release measures

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 nonemergency 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

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 noncombustible, 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. 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.

> Japan Page: 5/16

Version 3 Date of issue 6 May 2020

Product name SIGMADUR 550 BASE L(D)

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Product code 00392462

Ingredient name	Exposure limits
	ISHL (Japan, 10/2019).
	TWA: 50 ppm 8 hours.
	Japan Society for Occupational Health
	(Japan, 5/2018).
	OEL-M: 50 ppm 8 hours.
	OEL-M: 217 mg/m ³ 8 hours.
titanium dioxide (nanoparticle)	Japan Society for Occupational Health
	(Japan, 5/2018).
	OEL-M: 1 mg/m³ 8 hours. Form: Respirable
	dust
	OEL-M: 4 mg/m³ 8 hours. Form: Total dust
	OEL-M: 0.3 mg/m³, (as Ti) 8 hours. Form:
	nanoparticle
1,2,4-Trimethylbenzene	Japan Society for Occupational Health
	(Japan, 5/2018).
	OEL-M: 120 mg/m ³ 8 hours.
	OEL-M: 25 ppm 8 hours.
ethyl benzene	Japan Society for Occupational Health
	(Japan, 5/2018).
	OEL-M: 217 mg/m ³ 8 hours.
	OEL-M: 50 ppm 8 hours.
	ISHL (Japan, 10/2019).
	TWA: 20 ppm 8 hours.
carbon black animal or vegetable origin	Japan Society for Occupational Health
	(Japan, 5/2018).
	OEL-M: 1 mg/m³ 8 hours. Form: Respirable
	dust
	OEL-M: 4 mg/m³ 8 hours. Form: Total dust
cristobalite (>10 microns)	Japan Society for Occupational Health
	(Japan, 5/2018).
	OEL-C: 0.03 mg/m³ Form: Respirable dust

procedures

Recommended monitoring: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

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.

Individual protection measures

Japan Page: 6/16

Product name SIGMADUR 550 BASE L(D)

8. Exposure controls/personal protection

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye protection Skin protection

: Chemical splash goggles.

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

: For prolonged or repeated handling, use the following type of gloves:

May be used: nitrile rubber

Recommended: polyvinyl alcohol (PVA), Viton®

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

Appearance

Physical state : Liquid.

Color : Various

Odor : Characteristic.

Boiling point : >37.78°C (>100°F)

Flash point : Closed cup: 31°C (87.8°F)

Relative density : 1.24

Solubility : Insoluble in the following materials: cold water.

Viscosity : Not Applicable

Japan Page: 7/16

Product name SIGMADUR 550 BASE L(D)

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

: Decomposition products may include the following materials: carbon monoxide,

carbon dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<mark>≽</mark> arium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Xylene	LD50 Dermal	Rabbit	>1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
(nanoparticle)			J	
,	LD50 Dermal	Rabbit	>5000 mg/kg	_
	LD50 Oral	Rat	>5000 mg/kg	-
Solvent naphtha (petroleum),	LD50 Dermal	Rabbit	3.48 g/kg	_
light aromatic			3. 3.	
1.9	LD50 Oral	Rat	8400 mg/kg	-
1,2,4-Trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m³	4 hours
,,_,	LD50 Oral	Rat	5 g/kg	-
Propylene glycol methyl	LD50 Dermal	Rabbit	>5 g/kg	-
ether acetate		. 15.15.15	99	
	LD50 Oral	Rat	8532 mg/kg	_
ethyl benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
Sury SonZono	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	_
carbon black animal or	LD50 Dermal	Rabbit	>3 g/kg	_
vegetable origin	LEGO Bornial	rabbit	o gring	
vegetable origin	LD50 Oral	Rat	>15400 mg/kg	_
29H,31H-phthalocyaninato	LD50 Dermal	Rat	>5000 mg/kg	_
(2-)-N29,N30,N31,N32	LD30 Definal	ixat	7 3000 mg/kg	
copper				
Coppei	LD50 Oral	Rat	5.1 g/kg	
Cumene	LC50 Inhalation Vapor	Rat	39000 mg/m ³	4 hours
Camerie	LD50 Dermal	Rabbit	12.3 g/kg	- 110013
	LD50 Definal	Rat	1400 mg/kg	_
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	_
4-piperidyl) sebacate	LDJU Olal	ivat	3.123 g/kg	-
Silica silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	
containing crystalline and		เงลมมเ	- Jood Hig/kg	- -
amorphous				
amorphous				
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Japan Page: 8/16

Product code 00392462	Date of issue 6 May 2020	Version 3
Product name SIGMADUR 550 BASE L(D)		

11. Toxicological information

	LD50 Oral	Rat - Male,	>5000 mg/kg	-
		Female		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Xylene	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)

Name	Category	Route of exposure	Target organs
Kylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory system
	Category 3		Narcotic effects
Solvent naphtha (petroleum), light aromatic	Category 3	-	Respiratory tract
	Category 3		Narcotic effects
1,2,4-Trimethylbenzene	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Propylene glycol methyl ether acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
ethyl benzene	Category 3	-	Respiratory tract
	Category 3		Narcotic effects
Cumene	Category 1	-	central nervous system (CNS), kidneys, liver
	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects
Silica silicon dioxide containing crystalline and amorphous	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Japan Page: 9/16

Product code 00392462 Date of issue 6 May 2020 Version 3
Product name SIGMADUR 550 BASE L(D)

11. Toxicological information

Name	Category	Route of exposure	Target organs
<mark>≽</mark> arium sulfate	Category 1	-	respiratory system
Xylene	Category 1	-	nervous system, respiratory system
titanium dioxide (nanoparticle)	Category 1	-	respiratory system
1,2,4-Trimethylbenzene	Category 2	-	central nervous system (CNS), lungs
ethyl benzene	Category 2	-	hearing organs
carbon black animal or vegetable origin	Category 1	-	respiratory system
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys, respiratory system

Aspiration hazard

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

Information on the likely routes of exposure

: Not available.

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or

dizziness. May cause respiratory irritation.

Skin contact : Zauses 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 physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

nausea or vomiting

headache

drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Japan Page: 10/16

Product name SIGMADUR 550 BASE L(D)

11. Toxicological information

Skin contact: Adverse symptoms may include the following:

irritation redness dryness cracking

reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion : Adverse symptoms may include the following:

reduced fetal weight increase in fetal deaths skeletal malformations

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

Short term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

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.

Teratogenicity: May damage the unborn child.

Developmental effects: No known significant effects or critical hazards.

Fertility effects : May damage fertility.

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 L(D)	N/A	4339	N/A	55.1	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Xylene	4300	1100	N/A	11	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
Propylene glycol methyl ether acetate	8532	N/A	N/A	N/A	N/A
ethyl benzene	3500	17800	N/A	17.8	N/A
carbon black animal or vegetable origin	N/A	2500	N/A	N/A	N/A
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	5100	N/A	N/A	N/A	N/A
Cumene	N/A	12300	N/A	3	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A

Other information :

Japan Page: 11/16

Product name SIGMADUR 550 BASE L(D)

11. Toxicological information

Sanding and grinding dusts may be harmful if inhaled. This product contains crystalline silica which can cause lung cancer or silicosis. The risk of cancer depends on the duration and level of exposure to dust from sanding surfaces or mist from spray applications. 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. Wash thoroughly after handling. Emits toxic fumes when heated.

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Manium dioxide (nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
Propylene glycol methyl ether acetate	Acute LC50 161 mg/l Fresh water	Fish	96 hours
ethyl benzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	Acute LC50 >100 mg/l	Fish	96 hours
Silica silicon dioxide containing crystalline and amorphous	Acute LC50 >10000 mg/l	Fish	96 hours

Persistence/degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
⋉ ylene	-	-	Readily
ethyl benzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
X ylene	3.16	7.4 to 18.5	low
1,2,4-Trimethylbenzene	3.63	120.23	low
Propylene glycol methyl ether acetate	0.56	-	low
ethyl benzene	3.15	79.43	low
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	6.6	-	high
copper Cumene	3.66	35.48	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

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

Japan Page: 12/16

Version 3 Product code 00392462 Date of issue 6 May 2020

Product name SIGMADUR 550 BASE L(D)

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	IATA
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. : None identified. **IMDG IATA** : 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.

15. Regulatory information

Fire Service Law

Category	71	Danger category	Signal word	Designated quantity
⊘ ategory IV	Class II petroleums	III	Flammable - Keep Fire Away	1000 L

Pollutant Release and Transfer Registers (PRTR)

Japan Page: 13/16

Product code 00392462	Date of issue 6 May 2020	Version 3
Product name SIGMADUR 550 BASE L(D)		

15. Regulatory information

Ingredient name	%	Status	Reference number
1,2,4-Trimethylbenzene	15.331	Class 1	80
	4.7746	Class 1	296
	2.7627	Class 1	53

ISHL

Use of specified chemical substances

Ingredient name	%		Reference number
Ethyl benzene		Group-2 Substances under Supervision	3-3

Substances requiring labelling

Ingredient name	%	Status	Reference number
Kylene	≥10 - ≤25	Listed	136
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤5.0	Listed	404
Ethylbenzene	≤3.0	Listed	70
Crystalline silica	≤0.30	Listed	165-2
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Crystalline silica	≤0.30	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
X ylene	≥10 - ≤25	Listed	136
Petroleum naphtha	≤10	Listed	330
Trimethylbenzene	≤5.0	Listed	404
Cumene	≤0.30	Listed	138
Ethylbenzene	≤3.0	Listed	70
Crystalline silica	≤0.30	Listed	165-2
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Crystalline silica	≤0.30	Listed	165-2
Copper and its compounds	≤0.30	Listed	379
Carbon black	<1.0	Listed	130

Carcinogen

None of the components are listed.

Mutagen

None of the components are listed.

Corrosive liquid : Not listed

Occupational Safety and

Health Law

: Flammable liquid Class 4

Regulations on the Prevention of Tetraalkyl

Lead Poisoning

: Not listed

: Not listed

Harmful Substances Subject to Obtaining

ina

Permission for Manufacturing

Japan Page: 14/16

Product code 00392462 Version 3 Date of issue 6 May 2020

Product name SIGMADUR 550 BASE L(D)

15. Regulatory information

Harmful Substances.

Prohibited for Manufacturing : Not listed

Dangerous Substances : Inflammable Lead regulation : Not listed : Class 2 **Organic solvents**

poisoning prevention

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
Kylene	15.331	Priority assessment	125
1,2,4-Trimethylbenzene	4.7746	Priority assessment	49
1,3,5-Trimethylbenzene	0.79576	Priority assessment	201
Cumene	0.15973	Priority assessment	126
Ethylbenzene	2.7627	Priority assessment	50

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 and Maritime Disaster

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 1 **List of Specially Controlled**

Industrial Waste

: Not listed

Japan inventory : All components are listed or exempted.

Road law : Not available.

16. Other information

History

Date of issue/Date of : 6 May 2020

revision

Date of previous issue : 2/21/2019

Version : 3 **Prepared by** : EHS

Japan Page: 15/16

Product name SIGMADUR 550 BASE L(D)

16. Other information

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

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.

Japan Page: 16/16