SAFETY DATA SHEET

SIGMADUR 1800 BASE (TINTED)



Date of issue 25 February 2021

Version 23

1. Product and company identification

Product name	: SIGMADUR 1800 BASE (TINTED)
Product code	: 00248771
Product type	: Liquid.

Relevant identified uses of t	ne 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	: AMMABLE LIQUIDS - Category 3
	EYE IRRITATION - Category 2A
	CARCINOGENICITY - Category 1A
	TOXIC TO REPRODUCTION - Category 1B
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2
	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 3
	AQUATIC HAZARD (LONG-TERM) - Category 3
GHS label elements	
Hazard pictograms	

Signal word

: Danger

Product name SigiviADUR	(TOUD BASE (TINTED)
2. Hazards ident	ification
Hazard statements	• Fammable liquid and vapor

Hazard statements	Immable liquid and vapor. uses serious eye irritation. y cause respiratory irritation. y cause drowsiness or dizziness. y cause cancer. y damage fertility or the unborn child. y cause damage to organs. (central nervous system (CNS), kidneys, liv ipiratory system) uses damage to organs through prolonged or repeated exposure. (nerv stem, respiratory system)	
	rmful to aquatic life with long lasting effects.	
Precautionary statements		
Prevention	tain special instructions before use. Wear protective gloves, protective d eye or face protection. Keep away from heat, hot surfaces, sparks, op mes and other ignition sources. No smoking. Use explosion-proof elect ntilating or lighting equipment. Use non-sparking tools. Take action to p tic discharges. Avoid release to the environment. Do not breathe vapo t, drink or smoke when using this product.	pen rical, prevent
Response	exposed or concerned: Call a POISON CENTER or doctor. IF INHALE DISON CENTER or doctor if you feel unwell. IF IN EYES: Rinse cautiou ter for several minutes. Remove contact lenses, if present and easy to o ntinue rinsing. If eye irritation persists: Get medical advice or attention.	sly with
Storage	bre in a well-ventilated place. Keep container tightly closed. Keep cool.	
Disposal	pose of contents and container in accordance with all local, regional, na d international regulations.	ational
Other hazards which do not result in classification	olonged or repeated contact may dry skin and cause irritation.	

3. Composition/information on ingredients

• •			• •
Sub	star	ice/m	nixture

: Mixture

CAS number/other identifiers

CAS number	: Not applicable.
ENCS number	: Not available.

Ingredient name	%	CAS number	ENCS
Butyl acetate	15 - <20	123-86-4	2-731
titanium dioxide (nanoparticle)	12.5 - <15	13463-67-7	1-558; 5-5225
Xylene	5 - <7	1330-20-7	3-3; 3-60
barium sulfate	3 - <5	7727-43-7	1-89
Talc (containing no asbestos or quartz)	3 - <5	14807-96-6	Not available.
Propylene glycol methyl ether acetate	2 - <3	108-65-6	2-3144
ethyl benzene	1 - <2	100-41-4	3-28; 3-60
dimethyl glutarate	1 - <2	1119-40-0	2-857; 2-925
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	0.2 - <0.5	41556-26-7	5-5501
carbon black animal or vegetable origin	0.2 - <0.5	1333-86-4	5-3328; 5-5222
2-hydroxyethyl methacrylate	0.1 - <0.2	868-77-9	2-1044
[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			
Silica silicon dioxide containing crystalline and amorphous	0.1 - <0.2	7631-86-9	1-548
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32	0.1 - <0.2	147-14-8	5-3299; 5-3300;
copper			5-5216
		Japan	Page: 2/16

Product name SIGMADUR 1800 BASE (TINTED)

3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necess	ary first aid measures
Eye contact	 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

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 : May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation. Ingestion : May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation. Over-exposure signs/symptoms : Adverse symptoms may include the following: pain or irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing nauses 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 dryness creaking reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: irritation dryness creaking reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: irritation dryness creaking reduced fetal weight increase in fetal deaths skeletal malformations Ingestion : Adverse symptoms may include the following: irritation dryness creaking reduced fetal weight increase in fetal deaths skeletal malformations		Japan Page: 3/1
Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. Skin contact : May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation. Ingestion : May cause 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 irritation watering redness Inhalation : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations Skin contact : Adverse symptoms may include the following: respiratory tract irritation coughing nausea or vomiting headache dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations	Ingestion	reduced fetal weight increase in fetal deaths
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.Skin contact: May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.Ingestion: May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.Over-exposure signs/symptomsEye contact: Adverse symptoms may include the following: pain or irritation watering rednessInhalation: 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	Skin contact	irritation dryness cracking reduced fetal weight increase in fetal deaths
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.Skin contact: May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.Ingestion: May cause 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 irritation watering	Inhalation	respiratory tract irritation coughing nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.Skin contact: May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.Ingestion: May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.	Eye contact	pain or irritation watering
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.Skin contact: May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.Ingestion: May cause damage to organs following a single exposure if swallowed. Can cause	Over-exposure signs/s	<u>mptoms</u>
Inhalation: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.Skin contact: May cause damage to organs following a single exposure in contact with skin.	Ingestion	
Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or	Skin contact	
•	Inhalation	
	•	
Potential acute health effects		

4. First aid measures

Indication of immediate med	dica	l attention and special treatment needed, if necessary
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	1	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 : Use dry chemical, CO₂, water spray (fog) or foam. media Unsuitable extinguishing : Do not use water jet. media Specific hazards arising : Flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In from the chemical 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 harmful 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 may include the following materials: decomposition products carbon oxides sulfur oxides metal oxide/oxides **Special protective actions** : Promptly isolate the scene by removing all persons from the vicinity of the incident if for fire-fighters 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** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. equipment for fire-fighters

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".

Product name SIGMADOR 1000 BASE (TINTED)

6. Accidental release measures

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Methods and materials for containment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

: Put on appropriate personal protective equipment (see Section 8). 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.

Product name SIGMADUR 1800 BASE (TINTED)

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits	
Butyl acetate		Japan Society for Occupational Health (Japan, 5/2019). OEL-M: 475 mg/m ³ 8 hours. OEL-M: 100 ppm 8 hours. ISHL (Japan, 10/2019).	
titanium dioxide (nanoparticle)		TWA: 150 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2019). OEL-M: 1 mg/m ³ 8 hours. Form: Respirable dust OEL-M: 4 mg/m ³ 8 hours. Form: Total dust OEL-M: 0.3 mg/m ³ , (as Ti) 8 hours. Form: nanoparticle	
Xylene		ISHL (Japan, 10/2019). TWA: 50 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2019). OEL-M: 50 ppm 8 hours. OEL-M: 217 mg/m ³ 8 hours.	
Talc (containing no asbestos or quartz)		Japan Society for Occupational Health (Japan, 5/2019). OEL-M: 0.5 mg/m ³ 8 hours. Form: Respirable dust OEL-M: 2 mg/m ³ 8 hours. Form: Total dust	
ethyl benzene carbon black animal or vegetable or	igin	Japan Society for Occupational Health (Japan, 5/2019). OEL-M: 217 mg/m ³ 8 hours. OEL-M: 50 ppm 8 hours. ISHL (Japan, 10/2019). TWA: 20 ppm 8 hours. Japan Society for Occupational Health (Japan, 5/2019). OEL-M: 1 mg/m ³ 8 hours. Form: Respirable dust OEL-M: 4 mg/m ³ 8 hours. Form: Total dust	
procedures atmo of th prote stan	osphere or biological monitoring m le ventilation or other control meas ective equipment. Reference shou	n exposure limits, personal, workplace ay be required to determine the effectiveness sures and/or the necessity to use respiratory uld be made to appropriate monitoring ance documents for methods for the s will also be required.	
controls or of belo keep	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.		
controls they case	comply with the requirements of e	cess equipment should be checked to ensure environmental protection legislation. In some eering modifications to the process equipment to acceptable levels.	

8. Exposure controls/personal protection

Individual protection measures : Wash hands, forearms and face thoroughly after handling chemical products, before Hygiene measures 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 : Safety glasses with side shields. **Skin 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 : For prolonged or repeated handling, use the following type of gloves: May be used: Chloroprene Not recommended: nitrile rubber Recommended: neoprene, natural rubber (latex), polyvinyl alcohol (PVA), Viton®, 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: 23°C (73.4°F)
Relative density	: 1.24
Solubility	: Insoluble in the following materials: cold water.
Viscosity	: Not Applicable

Japan

Froduct name SigniAbor 1000 BASE (Thirte

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

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
(nanoparticle)			5	
	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	-
barium sulfate	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Propylene glycol methyl	LD50 Dermal	Rabbit	>5 g/kg	-
ether acetate			- 33	
	LD50 Oral	Rat	6190 mg/kg	-
ethyl benzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
oury sonzone	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
dimethyl glutarate	LC50 Inhalation Dusts and mists	Rat	>11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral	Rat	3.125 g/kg	-
4-piperidyl) sebacate			ee g,g	
carbon black animal or	LD50 Oral	Rat	>10 g/kg	-
vegetable origin			10 9/109	
2-hydroxyethyl methacrylate	LD50 Dermal	Rabbit	>5 g/kg	_
	LD50 Oral	Rat	5050 mg/kg	_
[1,3,8,16,18,24-hexabromo-	LD50 Dermal	Rat	>5000 mg/kg	_
2,4,9,10,11,15,17,22,23,25-decachloro-		- Cat	· oooo mg/ng	
29H,31H-phthalocyaninato				
(2-)-N29,N30,N31,N32]				
copper				
	LD50 Oral	Rat	>16000 mg/kg	-
Silica silicon dioxide	LD50 Dermal	Rabbit	>5000 mg/kg	_
		Παρρι	- 5000 mg/kg	-
	<u>'</u>	1	Japan	Page: 8/1

Product name SIGMADUR 1800 BASE (TINTED)

11. Toxicological information				
containing crystalline and				
amorphous	LD50 Oral	Rat - Male,	>5000 mg/kg	_
		Female	la coco mg/ng	
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	LD50 Dermal	Rat	>5000 mg/kg	-
copper				
	LD50 Oral	Rat	5.1 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Kylene	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
Butyl acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Xylene	Category 1	-	central nervous system (CNS), kidneys, liver, respiratory system
	Category 3		Narcotic effects
Talc (containing no asbestos or quartz)	Category 1	-	respiratory system
Propylene glycol methyl ether acetate	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
ethyl benzene	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)

11. Toxicological information

Name	Category	Route of exposure	Target organs
Manium dioxide (nanoparticle) Xylene	Category 1 Category 1	-	respiratory system nervous system,
barium sulfate Talc (containing no asbestos or quartz) ethyl benzene carbon black animal or vegetable origin Silica silicon dioxide containing crystalline and amorphous	Category 1 Category 1 Category 2 Category 1 Category 1	- - - -	respiratory system respiratory system respiratory system hearing organs respiratory system immune system, kidneys, respiratory system

Aspiration hazard

Name	Result
	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure	: Not available.
Potential acute health eff	ects
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	 May cause damage to organs following a single exposure in contact with skin. Defatting to the skin. May cause skin dryness and irritation.
Ingestion	: May cause damage to organs following a single exposure if swallowed. Can cause central nervous system (CNS) depression.
Symptoms related to the	physical, chemical and toxicological characteristics
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: respiratory tract irritation coughing 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 dryness cracking reduced fetal weight increase in fetal deaths skeletal malformations

11. Toxicological information

Delayed and immediate effec	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	1	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	1	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	No known significant effects or critical hazards.
Reproductive toxicity	:	May damage fertility or the unborn child.

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 1800 BASE (TINTED)	N/A	19407.2	N/A	174	N/A
Butyl acetate	10768	N/A	N/A	N/A	N/A
Xylene	4300	1700	N/A	11	N/A
barium sulfate	N/A	2500	N/A	N/A	N/A
Propylene glycol methyl ether acetate	6190	N/A	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
2-hydroxyethyl methacrylate	5050	N/A	N/A	N/A	N/A
29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper	5100	N/A	N/A	N/A	N/A

Other information

ŝ

Folonged 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

Toxicity

Product/ingredient name	Result	Species	Exposure
Butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
titanium dioxide (nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
Propylene glýcol methyl ether acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
ethyl benzene	Acute LC50 150 to 200 mg/l Fresh water	Fish	96 hours
[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
Silica silicon dioxide containing crystalline and amorphous	Acute LC50 >10000 mg/l	Fish	96 hours
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
Butyl acetate	TEPA and OECD 301D	83 % - Rea	idily - 28 days	-		-
Propylene glycol methyl ether acetate	-	83 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biode	gradability
Butyl acetate Xylene Propylene glycol methyl ether acetate ethyl benzene	- - -		- - -		Readil Readil Readil Readil	y y

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Butyl acetate	1.78	-	low
Xylene	3.16	7.4 to 18.5	low
Propylene glycol methyl	0.56	-	low
ether acetate			
ethyl benzene	3.15	79.43	low
dimethyl glutarate	0.62	-	low
2-hydroxyethyl methacrylate	0.47	-	low
29H,31H-phthalocyaninato	6.6	-	high
(2-)-N29,N30,N31,N32			-
copper			

Mobility in soil

Soil/water partition coefficient (K_{oc}) Mobility : Not available.

: Not available.

12. Ecological information

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. 5 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 nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

14. Transport information

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

Additional information

: None identified. UN

IMDG : None identified.

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

Product code 00248771

Product name SIGMADUR 1800 BASE (TINTED)

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
<mark>K</mark> ylene	5.5375	Class 1	80
Ethylbenzene	1.2681	Class 1	53

ISHL

Use of specified chemical substances

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

Substances requiring labelling

Ingredient name	%	Status	Reference number
<pre> //tanium(IV) oxide Butyl acetate Xylene </pre>	≥10 - ≤25	Listed	191
	≥10 - ≤25	Listed	181
	≤6.2	Listed	136
Ethylbenzene	≤1.4	Listed	70
Crystalline silica	≤0.30	Listed	165-2

Chemicals requiring notification

Ingredient name	%	Status	Reference number
Titanium(IV) oxide	≥10 - ≤25	Listed	191
Butyl acetate	≥10 - ≤25	Listed	181
Xylene	≤6.2	Listed	136
Ethylbenzene	≤1.4	Listed	70
Crystalline silica	≤0.30	Listed	165-2
Carbon black	≤0.30	Listed	130
Copper and its compounds	≤0.30	Listed	379
Copper and its compounds	≤0.30	Listed	379

Carcinogen

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid	: Not listed
Occupational Safety and Health Law	: Flammable liquid Class 3
Regulations on the Prevention of Tetraalkyl Lead Poisoning	: Not listed

15. Regulatory information

Harmful Substances Subject to Obtaining Permission for Manufacturing	: Not listed
Harmful Substances, Prohibited for Manufacturing	: Not listed
Dangerous Substances	: Inflammable
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	%		Reference number
K ylene	5.5375	Priority assessment	125
Ethylbenzene	1.2681	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 2B
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: At least one component is not listed.
Road law	: Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 25 February 2021
Date of previous issue	: 3/20/2020
Version	: 23
Prepared by	: EHS

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
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 aban and from analysis to be issued to ration

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.