# SAFETY DATA SHEET



Date of issue 9/10/2024 (month/day/year)

Version 1

### Section 1. Chemical product and company identification

Α.	Product name	1	SIGMADUR 2800 BASE WHITE
	Product code	4	00323803

#### B. Relevant identified uses of the substance or mixture and uses advised against

Product use Use of the substance/ mixture	<ul><li>Professional applications, Used by spraying.</li><li>Coating.</li></ul>
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
C. Supplier's or Importer's information	: PPG SSC (680-090) 19, Yeocheon-ro 217beon-gil, Nam-gu, Ulsan, Korea Tel: +82-52-210-8222
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8331

## Section 2. Hazards identification

Α	. Hazard classification	: FLAMMABLE LIQUIDS - Category 3 SKIN SENSITIZATION - Category 1
		CARCINOGENICITY - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
		Category 3
		AQUATIC HAZARD (LONG-TERM) - Category 3

This product is classified in accordance with the Industrial Safety and Health Act and the Chemical Control Act.

#### B. GHS label elements, including precautionary statements

:		
: V	Varning	

Hazard statements	: H226 - Flammable liquid and vapor.
	H317 - May cause an allergic skin reaction.
	H336 - May cause drowsiness or dizziness.
	H351 - Suspected of causing cancer.

H412 - Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

**Symbol** 

Signal word

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### Section 2. Hazards identification

	Prevention		<ul> <li>P202 - Do not handle until all safety precautions have been read and understood.</li> <li>P280 - Wear protective gloves, protective clothing and eye or face protection.</li> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical, ventilating or lighting equipment.</li> <li>P242 - Use non-sparking tools.</li> <li>P243 - Take action to prevent static discharges.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing vapor.</li> </ul>
	Response	:	<ul> <li>P308 + P313 - IF exposed or concerned: Get medical advice or attention.</li> <li>P304 + P312 - IF INHALED: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P362 + P364 - Take off contaminated clothing and wash it before reuse.</li> <li>P302 + P352 - IF ON SKIN: Wash with plenty of water.</li> <li>P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.</li> </ul>
	Storage	:	P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool.
	Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C.	Other hazards which do not result in classification	:	Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

#### **CAS number/other identifiers**

**CAS** number

#### : Not applicable.

Chemical name	Common name	Identifiers	%
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	20 - <30
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	20 - <30
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	10 -<20
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	BIS(PENTAMETHYLPIPERIDYL) SEBACATE	CAS: 41556-26-7	0.1 - <1
titanium dioxide (<10 microns)	TITANIUM DIOXIDE (<10 microns)	CAS: 13463-67-7	0.1 - <1
propylidynetrimethanol	TRIMETHYLOLPROPANE	CAS: 77-99-6	0.1 - <1
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	0.1 - <1
maleic anhydride	MALEIC ANHYDRIDE	CAS: 108-31-6	<0.1

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.

### Section 4. First aid measures

Α.	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.
В.	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.
C.	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.
D.	Ingestion	:	If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.
Е.	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)

## Section 5. Fire-fighting measures

			-
Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	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 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	:	Decomposition products may include the following materials: carbon oxides metal oxide/oxides The fluoropolymer resins used in this coating begin to decompose, very slowly, at temperatures above 625°F (330°C). Thermal decomposition is more rapid at temperatures above 750°F (400°C). Above 800°F (425°C) fluoropolymer resins give off small amounts of tetrafluoroethylene / hexafluoropropylene / perisofluorobutylene / carbonyl fluoride / hydrogen fluoride. These are toxic and if inhaled, in sufficient quantities, may be harmful. The actual decomposition products depend on temperature and the amount of oxygen.
C.	Special equipment for fire-fighting	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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L			

### Section 5. Fire-fighting measures

**Fire-fighting procedures** : 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.

### Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
   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.
- **B. 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.

#### C. 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<br/>explosion-proof equipment. Dilute with water and mop up if water-soluble.<br/>Alternatively, or if water-insoluble, absorb with an inert dry material and place in an<br/>appropriate waste disposal container. Dispose of via a licensed waste disposal<br/>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.

### Section 7. Handling and storage

A. Precautions for safe Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in handling which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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.

### Section 7. Handling and storage

B. Conditions for safe storage, including any incompatibilities
 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.

### Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name	Exposure	limits
titanium dioxide	(Republic TWA: 10	f Employment and Labor of Korea, 1/2020). mg/m <sup>3</sup> 8 hours. Form: total dust
n-butyl acetate	Ministry of (Republic STEL: 200	an 1% of free SiO2 f <b>Employment and Labor of Korea, 1/2020).</b> D ppm 15 minutes.
titanium dioxide (<10 micro	s) Ministry of (Republic	) ppm 8 hours. f <b>Employment and Labor</b> of Korea, 1/2020). mg/m <sup>3</sup> 8 hours. Form: total dust
ethylbenzene	with less th Ministry of (Republic	an 1% of free SiO2 f Employment and Labor of Korea, 1/2020).
maleic anhydride	TWA: 100 Ministry of (Republic	5 ppm 15 minutes. ) ppm 8 hours. f <b>Employment and Labor of Korea, 1/2020).</b> mg/m <sup>3</sup> 8 hours.
Recommended monitoring procedures	Reference should be made to appropriate monitorin national guidance documents for methods for the d substances will also be required.	
Appropriate engineering controls	Use only with adequate ventilation. Use process enventilation or other engineering controls to keep we contaminants below any recommended or statutory also need to keep gas, vapor or dust concentration limits. Use explosion-proof ventilation equipment.	orker exposure to airborne / limits. The engineering controls
Environmental	Emissions from ventilation or work process equipm	ent should be checked to ensur

**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.

#### C. Personal protective equipment

### Section 8. Exposure controls/personal protection

Respiratory protection	<ul> <li>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.</li> <li>Safety glasses with side shields.</li> </ul>
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.
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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### A. Appearance **Physical state** : Liquid. Color : White. **B.** Odor : Characteristic. C. Odor threshold Not available. D. pH : Not applicable. E. Melting/freezing point : Not available. F. Boiling point/boiling : >37.78°C (>100°F) range G. Flash point : Closed cup: 26°C (78.8°F) H. Evaporation rate : Not available. I. Flammability (solid, gas) : Not available. J. Lower and upper

J. Lower and upper explosive (flammable) imits
 K. Vapor pressure :

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### Section 9. Physical and chemical properties

			Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C		
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
		n-butyl acetate	11.25096	1.5	DIN EN 13016-2				
Solubility(ies)		Media	Re	sult					
,		cold water							
Solubility in water	:	Not available.							
Vapor density	:	Not available.							
Relative density	1	1.34							
Partition coefficient: n- octanol/water	:	Not applicable.							
Auto-ignition temperature	:								
		Ingredient name		°C	°F		Method		
		2-methoxy-1-methylethyl	acetate	333	631.4		DIN 51794		
		Not available.				Į			
Decomposition . temperature									
<sup>2.</sup> temperature Viscosity		Kinematic (40°C (104	4°F)): >21	mm²/s (	(>21 cSt)				
2. temperature	:	Kinematic (40°C (104 Not available.	4°F)): >21	mm²/s (	(>21 cSt)				

## Section 10. Stability and reactivity

Α.	Chemical stability	:	The product is stable.
	Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
В.	Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
C.	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
D.	Hazardous decomposition products	:	Depending on conditions, decomposition products may include the following materials: carbon oxides metal oxide/oxides The fluoropolymer resins used in this coating begin to decompose, very slowly, at temperatures above 625°F (330°C). Thermal decomposition is more rapid at temperatures above 750°F (400°C). Above 800°F (425°C) fluoropolymer resins give off small amounts of tetrafluoroethylene / hexafluoropropylene / perisofluorobutylene / carbonyl fluoride / hydrogen fluoride. These are toxic and if inhaled, in sufficient quantities, may be harmful. The actual decomposition products depend on temperature and the amount of oxygen. Proper ventilation should be used at all curing temperatures.

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# Section 11. Toxicological information

Product name SIGMADUR 2800 BASE WHITE

Α.	Information on the likely routes of exposure	/ : Not available.
<u>P</u>	otential acute health effe	<u>cts</u>
	Inhalation :	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
	Ingestion :	Can cause central nervous system (CNS) depression.
	Skin contact :	Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
	Eye contact :	No known significant effects or critical hazards.
<u>0</u>	ver-exposure signs/sym	<u>otoms</u>
	Inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
	Ingestion :	No specific data.
	Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
	Eye contact :	No specific data.

#### **B.** Health hazards

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists		Ũ	
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
n-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	-
2-methoxy-1-methylethyl acetate	LC50 Inhalation Vapor	Rat	30 mg/l	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	6190 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
titanium dioxide (<10 microns)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapor	Rat	17.8 mg/l	4 hours
-	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
maleic anhydride	LD50 Dermal	Rabbit	2620 mg/kg	-
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Section 11. Toxicological information						
		LD50 Oral	Rat	400 mg/kg	-	
Conclusion/Summary	: There are	no data available on	the mixture itself.			
Irritation/Corrosion						
Conclusion/Summary	1					
Skin	: There are	no data available on	the mixture itself.			
Eyes	: There are	no data available on	the mixture itself.			
Respiratory	: There are	no data available on	the mixture itself.			
Sensitization						
Conclusion/Summary	<b>T</b> I					
Skin	• • • • • • • • • • •	o data available on t				
Respiratory	: There are n	o data available on t	he mixture itself.			
Mutagenicity						
Conclusion/Summary	: There are r	no data available on <sup>-</sup>	the mixture itself.			
<b>Carcinogenicity</b>						
Conclusion/Summary	: There are	no data available on	the mixture itself.			
Description for the						
Reproductive toxicity						
Conclusion/Summary	: There are	no data available on	the mixture itself.			
Teratogenicity						
Conclusion/Summary	: There are	no data available on	the mixture itself.			
Specific torrect orrect to						

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

Name	Classification	Route of exposure	Target organs
n-butyl acetate	Category 3		Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3		Narcotic effects

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

Name	Classification	Route of exposure	Target organs
maleic anhydride	Category 1	inhalation	respiratory system

#### **Aspiration hazard**

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

General

: 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.

### Section 11. Toxicological information

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	: No known significant effects or critical hazards.

#### **Additional information**

Prolonged or repeated contact may dry skin and cause irritation. 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.

Chemical name	Identifiers	GHS Classification
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
n-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
	040,400.05.0	EXPOSURE) (Narcotic effects) - Category 3
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
sebacate	0/10. 41000-20-1	SKIN BENGHIZATION - Datagory TB
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
titanium dioxide (<10 microns)	CAS: 13463-67-7	CARCINOGENICITY - Category 2
propylidynetrimethanol	CAS: 77-99-6	TOXIC TO REPRODUCTION - Category 2
ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
		ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 3
maleic anhydride	CAS: 108-31-6	ACUTE TOXICITY (oral) - Category 4
······································		SKIN CORROSION - Category 1B
		SERIOUS EYE DAMAGE - Category 1
		RESPIRATORY SENSITIZATION - Category 1A
		SKIN SENSITIZATION - Category 1A
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1

## Section 12. Ecological information

#### A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
titanium dioxide n-butyl acetate	Acute LC50 >100 mg/l Fresh water Acute LC50 18 mg/l	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
titanium dioxide (<10 microns)	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
propylidýnetrimethanol ethylbenzene	Acute LC50 >1000 mg/l Acute EC50 1.8 mg/l Fresh water Chronic NOEC 1 mg/l Fresh water	Fish Daphnia Daphnia - <i>Ceriodaphnia dubia</i>	96 hours 48 hours -

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### Section 12. Ecological information

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-		-
2-methoxy-1-methylethyl acetate ethylbenzene	-		adily - 28 days adily - 10 days	-		-
Product/ingredient name	uct/ingredient name     Aquatic half-life       yl acetate     -       thoxy-1-methylethyl     -		Photolysis		Biodeg	Jradability
n-butyl acetate 2-methoxy-1-methylethyl acetate			-		Readily Readily	
ethylbenzene	-		-		Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
n-butyl acetate	2.3	-	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
propylidynetrimethanol ethylbenzene maleic anhydride	-0.47 3.6 -2.78	- 79.43 -	Low Low Low

D. Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

E. <u>Other adverse effects</u> : No known significant effects or critical hazards.

### Section 13. Disposal considerations

- A. 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.
- B. Disposal precautions
   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.

### Section 14. Transport information

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

#### Additional information

UN	: None identified.
IMDG	: None identified.
ΙΑΤΑ	: None identified.

# F. Special precaution which a user to be aware of or needs to comply with in connection with transport or transportation

**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

### Section 15. Regulatory information

Α.	. <u>Regulation according to ISHA</u>				
	ISHA article 117 (Harmful substances prohibited from manufacture)	: None of the components are listed.			
	ISHA article 118 (Harmful substances requiring permission)	: None of the components are listed.			
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	: It is not allowed to sell to persons under the age of 19.			
Exposure Limits of Chemical Substances and Physical Factors					
The following components have an OEL: titanium dioxide n-butyl acetate titanium dioxide (<10 microns) ethylbenzene maleic anhydride					

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## Section 15. Regulatory information

			-
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	None of the components are listed.
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: titanium dioxide, n-butyl acetate
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	None of the components are listed.
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide, n-butyl acetate
В.	Regulation according to	<u>Ch</u>	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Ethylbenzene
	Article 18 Prohibited (K- Reach Article 27)	:	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	:	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Class: Class 4 - Flammable Liquid Item: 4. Class 2 petroleums - Water-insoluble liquid Threshold: 1000 L Danger category: III Signal word: Contact with sources of ignition prohibited
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Е.	E. <u>Regulation according to other foreign laws</u>		er foreign laws
	Safety, health and environmental regulations specific for the product	:	No known specific national and/or regional regulations applicable to this product (including its ingredients).

Product code 003238 Product name SIGMA	03 Date of issue 9/10/2024 (month/day/year) Version 1 DUR 2800 BASE WHITE	
Section 16. O	her information	
A. References	<ul> <li>Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice Registry of Toxic Effects of Chemical Substances (RTECS) U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.</li> </ul>	

в.	First issue date		9/10/2024
	Date of issue/Date of revision		9/10/2024
D.	Version	:	1
	Prepared by	:	EHS

- Prepared by
- E. Other

✓ Indicates information that has changed from previously issued version.

#### **Disclaimer**

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.