# SAFETY DATA SHEET



Date of issue 9/13/2024 (month/day/year)

Version 10

### Section 1. Chemical product and company identification

Α.	Product name	1	SIGMADUR 550 BASE CS649-69
	Product code	1	00358099

#### B. 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	: 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 Korea MSDS@PRC COM
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: <mark>⊭</mark> 82-52-210-8331

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) -
	Category 3
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
	AQUATIC HAZARD (LONG-TERM) - Category 3
<b>T I I I I I I I I I I</b>	

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 Symbol :



Signal word

: Danger

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Product name SIGMADUR 550 BASE CS649-69

### Section 2. Hazards identification

Hazard statements	<ul> <li>H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H336 - May cause drowsiness or dizziness. H351 - Suspected of causing cancer. H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver) H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	; ;
Prevention	<ul> <li>P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P270 - Do not eat, drink or smoke when using this product. P264 - Wash thoroughly after handling.</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> <li>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337 + P313 - If eye irritation persists: 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	%
<b>X</b> ylene	XYLENES	CAS: 1330-20-7	20 - <30
n-butyl acetate titanium dioxide Talc , not containing asbestiform fibres ethylbenzene 2-methoxy-1-methylethyl acetate Octadecanamide, N,N'-1,6-hexanediylbis	N-BUTYL ACETATE TITANIUM DIOXIDE Talc, non-asbestos form ETHYLBENZENE 1-METHOXY-2-PROPYL ACETATE N,N-1,6-HEXANEDIYLBIS	CAS: 123-86-4 CAS: 13463-67-7 CAS: 14807-96-6 CAS: 100-41-4 CAS: 108-65-6 CAS: 55349-01-4	5 - <10 5 - <10 1 - <5 1 - <5 1 - <5 1 - <5 1 - <5
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# Section 3. Composition/information on ingredients

•		
(12-HYDROXY-OCTADECANEIMIDE)		
SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
LIGHT AROMATIC		
COPPER PHTALOCYANINE	CAS: 147-14-8	1 - <5
2-BUTOXY ETHANOL	CAS: 111-76-2	0.1 - <1
BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
SEBACATE		
cyclohexanone	CAS: 108-94-1	0.1 - <1
	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC COPPER PHTALOCYANINE 2-BUTOXY ETHANOL BIS(PENTAMETHYLPIPERIDYL) SEBACATE	SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC COPPER PHTALOCYANINECAS: 64742-95-6 CAS: 147-14-82-BUTOXY ETHANOL BIS(PENTAMETHYLPIPERIDYL) SEBACATECAS: 111-76-2 CAS: 41556-26-7

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		In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	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)

### 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.

### Section 5. Fire-fighting measures

Β.	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 nitrogen oxides sulfur oxides metal oxide/oxides
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.
	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 source 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.	S.
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 o	ontainment and cleaning up	
Small spill	<ul> <li>Stop leak if without risk. Move containers from spill area. Use spark-proof tools at 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.</li> </ul>	
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 inte sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with no combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earl 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 fo emergency contact information and Section 13 for waste disposal.	n- th

### Section 7. Handling and storage

Α.	Precautions for safe handling	: 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 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 breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
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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
Xylene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). [Xylene]
	STEL: 150 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
n-butyl acetate	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 200 ppm 15 minutes.
	TWA: 150 ppm 8 hours.
titanium dioxide	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 10 mg/m <sup>3</sup> 8 hours. Form: total dust
	with less than 1% of free SiO2
Talc , not containing asbestiform fibres	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers
ethylbenzene	Ministry of Employment and Labor
	(Republic of Korea, 1/2020).
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
2-butoxyethanol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed
	through skin.
	TWA: 20 ppm 8 hours.
cyclohexanone	Ministry of Employment and Labor
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# Section 8. Exposure controls/personal protection

			t	Republic of Korea, 1/2020). Absorbed hrough skin. TWA: 25 ppm 8 hours. STEL: 50 ppm 15 minutes.
	Recommended monitoring procedures		Reference should be made to appropriat national guidance documents for method substances will also be required.	
В.	Appropriate engineering controls		Use only with adequate ventilation. Use ventilation or other engineering controls t contaminants below any recommended of also need to keep gas, vapor or dust con limits. Use explosion-proof ventilation ec	to keep worker exposure to airborne or statutory limits. The engineering controls incentrations below any lower explosive
	Environmental exposure controls			
C.	Personal protective equip	me	nt	
	Respiratory protection	:	hazards of the product and the safe wor workers are exposed to concentrations a appropriate, certified respirators. Use a	above the exposure limit, they must use
	Eye protection	4	Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling chen this is necessary. Considering the parar check during use that the gloves are still should be noted that the time to breakth	rough for any glove material may be rs. In the case of mixtures, consisting of
	Gloves	1	butyl rubber	
	Body protection		being performed and the risks involved a before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include anti-	re is a risk of ignition from static electricity, the greatest protection from static static overalls, boots and gloves.
	Hygiene measures	:	eating, smoking and using the lavatory a	to remove potentially contaminated clothing. be allowed out of the workplace. Wash Ensure that eyewash stations and safety

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### Section 9. Physical and chemical properties

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

limits			
explosive (flammable)	-	Greatest known rang	e: Lower: 1.4%
		Not available	
Evaporation rate	:	Not available.	
Flash point	:	Closed cup: 25°C (77	′°F)
Boiling point/boiling range	:	>37.78°C (>100°F)	
Melting/freezing point	1	Not available.	
рН	1	Not applicable.	
Odor threshold	:	Not available.	
Odor	:	Characteristic.	
Color	:	Not available.	
Physical state	1	Liquid.	
Appearance			
	Physical state Color Odor Odor threshold pH Melting/freezing point Boiling point/boiling range Flash point Evaporation rate Flammability (solid, gas) Lower and upper	Physical state:Color:Odor:Odor threshold:pH:Melting/freezing point:Boiling point/boiling:range:Flash point:Evaporation rate:Flammability (solid, gas):Lower and upper:explosive (flammable):	Physical state: Liquid.Color: Not available.Odor: Characteristic.Odor threshold: Not available.pH: Not applicable.Melting/freezing point: Not available.Boiling point/boiling: >37.78°C (>100°F)range:Flash point: Closed cup: 25°C (77Evaporation rate: Not available.Flammability (solid, gas): Not available.Lower and upper: Greatest known rangexplosive (flammable): State of the state of

K. Vapor	pressure
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	Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
p≁butyl acetate	11.25096	1.5	DIN EN 13016-2				
Media	Re	sult					
old water	Nc	t solubl	e				
Not available.							
Not available.							
1.23							
Not applicable.							

Upper: 7.6% (n-butyl acetate)

L. Solubility(ies)

Solubil	lity ir	water
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- Vapor density Μ.
- **Relative density** Ν.
- Partition coefficient: n-
- 0. octanol/water

#### **Auto-ignition** Ρ. temperature

Ingredient name	°C	°F	Method
<b>S</b> olvent naphtha (petroleum), light aromatic	280 to 470	536 to 878	

- **Decomposition** Q. temperature
- : Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
- Viscosity R. Flow time (ISO 2431)

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- **Molecular weight** S.
- : Not available.

: Not available.

: Not applicable.

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### Section 10. Stability and reactivity

Α.	Chemical stability	1	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 nitrogen oxides sulfur oxides metal oxide/oxides

## Section 11. Toxicological information

	nformation on the likely routes of exposure	y : Not available.
Pot	tential acute health effe	<u>cts</u>
I	inhalation :	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
I	ingestion :	Can cause central nervous system (CNS) depression.
	Skin contact	Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
I	Eye contact :	Causes serious eye irritation.
<u>Ov</u>	er-exposure signs/sym	<u>ptoms</u>
I	inhalation :	Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness
1	ingestion	No specific data.
\$	Skin contact :	Adverse symptoms may include the following: irritation redness dryness cracking
I	Eye contact :	Adverse symptoms may include the following: pain or irritation watering redness
B. I	Health hazards	
Δου	te toxicity	

**Acute toxicity** 

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### Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
<b>X</b> ylene	LD50 Dermal	Rabbit	1.7 g/kg	-
-	LD50 Oral	Rat	4.3 g/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	-
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists			
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 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	-
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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
29H,31H-phthalocyaninato(2-)-N29, N30,N31,N32 copper	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5.1 g/kg	-
2-butoxyethanol	LC50 Inhalation Vapor	Rat	3 mg/l	4 hours
,	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
-,	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-

**Conclusion/Summary** : There are no data available on the mixture itself.

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	<b>Observation</b>
<b>X</b> ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
2-butoxyethanol	Eyes - Irritant Skin - Moderate irritant	Rabbit Rabbit	-	mg 24 hours 4 hours	21 days 28 days

: There are no data available on the mixture itself.
: There are no data available on the mixture itself.
: There are no data available on the mixture itself.

### Sensitization

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.

#### **Mutagenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

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### Section 11. Toxicological information

#### **Carcinogenicity**

**Conclusion/Summary** : There are no data available on the mixture itself.

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

Name	Classification	Route of exposure	Target organs
<ul> <li>▼ylene</li> <li>n-butyl acetate</li> <li>Talc , not containing asbestiform fibres</li> <li>2-methoxy-1-methylethyl acetate</li> <li>Solvent naphtha (petroleum), light aromatic</li> <li>cyclohexanone</li> </ul>	Category 3 Category 3 Category 3 Category 3 Category 3 Category 3	- - - -	Narcotic effects Narcotic effects Respiratory tract irritation Narcotic effects Narcotic effects Respiratory tract irritation

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

Name	Classification	Route of exposure	Target organs
Xylene	Category 1		central nervous system (CNS), kidneys, liver

#### **Aspiration hazard**

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

#### 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. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

#### Additional information

Product name SIGMADUR 550 BASE CS649-69

### Section 11. Toxicological information

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
Vylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (dermal) - Category 4
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		SPECIFIC TARGET ORGAN TOXICITY
		(REPEATED EXPOSURE) - Category 1
n-butyl acetate	CAS: 123-86-4	FLAMMABLE LIQUIDS - Category 2
	070.120-00-4	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
titanium diavida	CAS: 13463-67-7	
titanium dioxide		CARCINOGENICITY - Category 2
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
<i></i>		Category 3
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
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
Octadecanamide, N,N'-1,6-hexanediylbis	CAS: 55349-01-4	SKIN SENSITIZATION - Category 1B
[12-hydroxy-		
		AQUATIC HAZARD (LONG-TERM) - Category 4
Solvent naphtha (petroleum), light aromatic	CAS: 64742-95-6	FLAMMABLE LIQUIDS - Category 3
		SKIN IRRITATION - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 2
29H,31H-phthalocyaninato(2-)-N29,N30,	CAS: 147-14-8	Not classified.
N31,N32 copper	0,10. 177-17-0	
2-butoxyethanol	CAS: 111-76-2	FLAMMABLE LIQUIDS - Category 4
	070.111-70-2	
		ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (inhalation) - Category 3
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		CARCINOGENICITY - Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
		TOXIC TO REPRODUCTION - Category 2
		AQUATIC HAZARD (ACUTE) - Category 1
		AQUATIC HAZARD (LONG-TERM) - Category 1
cyclohexanone	CAS: 108-94-1	FLAMMABLE LIQUIDS - Category 3
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### Section 11. Toxicological information

ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4
SKIN IRRITATION - Category 2
SERIOUS EYE DAMAGE - Category 1
CARCINOGENICITY - Category 2
SPECIFIC TARGET ORGAN TOXICITY (SINGLE
EXPOSURE) (Respiratory tract irritation) -
Category 3

## Section 12. Ecological information

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

Product/ingredient name	Result	Species	Exposure
<b>n</b> -butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
2-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	Acute LC50 >100 mg/l	Fish	96 hours
2-butoxyethanol	Acute LC50 1474 mg/l Chronic NOEC >100 mg/l	Fish Fish	96 hours 21 days

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days		-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
2-methoxy-1-methylethyl acetate	-	83 % - Rea	adily - 28 days	-		-
Product/ingredient name	Aquatic half-life	e	Photolysis		Biode	gradability
Xylene	-		-		Readily	/
n-butyl acetate	-		-		Readil	/
ethylbenzene	-		-		Readil	/
2-methoxy-1-methylethyl acetate	-		-		Readil	/
2-butoxyethanol	-		-		Readil	/

### C. Bioaccumulative potential

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Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
n-butyl acetate	2.3	-	Low
ethylbenzene	3.6	79.43	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	6.6	-	High
copper			
2-butoxyethanol	0.81	-	Low
cyclohexanone	0.86	-	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

soil, waterways, drains and sewers.

thoroughly internally. Avoid dispersal of spilled material and runoff and contact with

### 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.
			Korea (GHS) Page: 13/16

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	Transport informa	tion		
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Additional informati UN :	on 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.

: None identified.

: None identified.

to IMO instruments

IMDG

ΙΑΤΑ

# Section 15. Regulatory information

#### A. Regulation according to ISHA **ISHA article 117** : None of the components are listed. (Harmful substances prohibited from manufacture) **ISHA article 118** : None of the components are listed. (Harmful substances requiring permission) **Article 2 of Youth Protection** : It is not allowed to sell to persons under the age of 19. Act on Substances Hazardous to Youth **Exposure Limits of Chemical Substances and Physical Factors** The following components have an OEL: Xylene n-butyl acetate titanium dioxide Talc, not containing asbestiform fibres ethylbenzene 2-butoxyethanol cyclohexanone **ISHA Enforcement Regs** : The following components are listed: cyclohexanone Annex 19 (Exposure standards established for harmful factors) **ISHA Enforcement Regs** The following components are listed: xylene, n-butyl acetate, titanium dioxide, talc / Annex 21 (Harmful soapstone, ethyl benzene factors subject to Work **Environment Measurement**)

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	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Xylene, Ethyl benzene			
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, n-butyl acetate, titanium dioxide, ethyl benzene, copper and its compounds			
В.	Regulation according to Chemicals Control Act					
	Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Barium and its compounds, Ethylbenzene, Copper and its compounds			
	Article 18 Prohibited (K- Reach Article 27)	1	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)	1	None of the components are listed.			
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable			
	Korea inventory	1	Kil 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.			
Ε.	Regulation according to other 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).			

# Section 16. Other 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>
B. First issue dat	e : 3/31/2018

### Section 16. Other information

C.	Date of issue/Date of revision	:	9/13/2024
D.	Version	:	10
	Prepared by	:	EHS

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.