# SAFETY DATA SHEET



Date of issue 1/16/2025 (month/day/year)

Version 3.03

### Section 1. Chemical product and company identification

A. Product name	: SIGMADUR 550 BASE APS 8002
Product code	: 00427122

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

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

# Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (inhalation) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3 This product is classified in accordance with the Industrial Safety and Health Act and the Chamical Control Act
	the Chemical Control Act.

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



Signal word

**Symbol** 

: Danger

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### Section 2. Hazards identification

Hazard statements	<ul> <li>H226 - Flammable liquid and vapor. H315 - Causes skin irritation. H319 - Causes serious eye irritation. H332 - Harmful if inhaled. H336 - May cause drowsiness or dizziness. H350 - May cause 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	5 · · · · · · · · · · · · · · · · · · ·
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>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>P240 - Ground and bond container and receiving equipment.</li> </ul>
	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.
Response	<ul> <li>P370 + P378 - In case of fire: Never use water to extinguish.</li> <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>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</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> <li>P321 - Specific treatment (see the label).</li> </ul>
Storage	<ul> <li>P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.</li> <li>P403 + P235 - Keep cool.</li> </ul>
Disposal	: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in	: Prolonged or repeated contact may dry skin and cause irritation.

classification

# Section 3. Composition/information on ingredients

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

CAS number

: Not applicable.

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### Section 3. Composition/information on ingredients

Chemical name	Common name	Identifiers	%
Xylene	XYLENES	CAS: 1330-20-7	20 -
			<30
		EC: 215-535-7	
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	5 - <10
		EC: 238-877-9	
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	5 - <10
		EC: 203-603-9	
n-butyl acetate	N-BUTYL ACETATE	CAS: 123-86-4	5 - <10
		EC: 204-658-1	
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	1 - <5
		EC: 202-849-4	
29H,31H-phthalocyaninato(2-)-N29,N30,	COPPER PHTALOCYANINE	CAS: 147-14-8	1 - <5
N31,N32 copper			
		EC: 205-685-1	
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
		EC: 236-675-5	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
		EC: 255-437-1	
crystalline silica, respirable powder (<10	QUARTZ (<10 microns)	CAS: 14808-60-7	0.1 - <1
microns)			••••
		EC: 238-878-4	
Toluene	TOLUENE	CAS: 108-88-3	0.1 - <1
		EC: 203-625-9	-
dodecyltrimethylammonium chloride	dodecyltrimethylammonium chloride	CAS: 112-00-5	<0.1
		EC: 203-927-0	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	:	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.

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### Section 4. First aid measures

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

#### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

<b>A</b> .	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 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 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

### Section 6. Accidental release measures

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

### Section 7. Handling and storage

Α.	Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). 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.
В.	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

### Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name	Exposure limits
Xylene	ISHA Article 42 (Republic of Korea,
	1/2020) [Xylene]
	STEL 15 minutes: 150 ppm.
	TWA 8 hours: 100 ppm.
Talc , not containing asbestiform fibres	ISHA Article 42 (Republic of Korea,
-	1/2020)
	TWA 8 hours: 2 mg/m <sup>3</sup> (as asbestos).
	Form: fibers.
n-butyl acetate	ISHA Article 42 (Republic of Korea,
•	1/2020)

contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

				STEL 15 minutes: 200 ppm.	
				TWA 8 hours: 150 ppm.	
	ethylbenzene			ISHA Article 42 (Republic of Korea,	
				1/2020)	
				STEL 15 minutes: 125 ppm.	
				TWA 8 hours: 100 ppm.	
	titanium dioxide			ISHA Article 42 (Republic of Korea,	
				1/2020)	
				TWA 8 hours: 10 mg/m <sup>3</sup> .	
	crystalline silica, respirable	эp	owder (<10 microns)	ISHA Article 42 (Republic of Korea,	
				1/2020)	
				TWA 8 hours: 0.05 mg/m <sup>3</sup> . Form:	
				Respirable fraction.	
	Toluene			ISHA Article 42 (Republic of Korea,	
				1/2020)	
				STEL 15 minutes: 150 ppm.	
				TWA 8 hours: 50 ppm.	
	Recommended	1	Reference should be made to appropria	ate monitoring standards. Reference to	
	monitoring procedures		national guidance documents for metho		
	31		substances will also be required.		
R	Appropriate engineering	2	Use only with adequate ventilation. Us	e process enclosures, local exhaust	
Ь.	controls	1	ventilation or other engineering controls		
	controls			d or statutory limits. The engineering controls	
				oncentrations below any lower explosive	
	limits. Use explosion-proof ventilation				
	Environmental : Emissions from ventilation or work process equipment should be checked to en				
		they comply with the requirements of environmental protection legislation. In som			
	cases, fume scrubbers, filters or engineering modifications to the process				
			equipment will be necessary to reduce		
				·	
С.	Personal protective equip	me	nt		
	Respiratory protection	1	Respirator selection must be based or	h known or anticipated exposure levels, the	
			hazards of the product and the safe we	orking limits of the selected respirator. If	
			workers are exposed to concentrations above the exposure limit, they must use		
				a properly fitted, air-purifying or air-fed	
			respirator complying with an approved standard if a risk assessment indicates thi		
			necessary.		
	Eye protection	÷	Chemical splash goggles.		
	Hand protection	4		complying with an approved standard should	
				emical products if a risk assessment indicates	
				ameters specified by the glove manufacturer,	
				till retaining their protective properties. It	
			should be noted that the time to break		
				rers. In the case of mixtures, consisting of	
			several substances, the protection time	e or the gloves cannot be accurately	
			estimated.		
	Body protection	4		body should be selected based on the task	
				d and should be approved by a specialist	
				ere is a risk of ignition from static electricity,	
			wear anti-static protective clothing. Fo		
			discharges, clothing should include an	u-static overalis, boots and gloves.	

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### Section 8. Exposure controls/personal protection

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## 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	: Blue.
Odor	: Aromatic. [Strong]

- C. Odor threshold
- D. pH

Β.

: Not applicable.

: Not available.

: Not available.

- E. Melting/freezing point
- F. Boiling point/boiling : >37.78°C (>100°F)
- range G. Flash point
- : Closed cup: 28°C (82.4°F)
- H. Evaporation rate
- : Not available.

: Not available.

- Flammability (solid, gas) : Not available. Ι.
- J. Lower and upper explosive (flammable) limits
- K. Vapor pressure

L. Solubility(ies)

	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				
cold water	No	t solubl	e			
Not available.						
Not available.						

Vapor density Μ. **Relative density** 

Solubility in water

- Ν. Partition coefficient: n-: Not applicable.
- 0. octanol/water **Auto-ignition**
- Ρ. temperature

Ingredient name	°C	°F	Method
Prove the second sec	333	631.4	DIN 51794

- **Decomposition** Q.
- : Not available.

: 1.2

÷.

temperature

### Section 9. Physical and chemical properties

Viscosity R.	:	Dynamic (room temperature): Not available. Kinematic (room temperature): >400 mm²/s (>400 cSt) Kinematic (40°C (104°F)): >21 mm²/s (>21 cSt)
Flow time (I	SO 2431) :	Not available.
S. Molecular w	eight :	Not applicable.

## 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 nitrogen oxides sulfur oxides metal oxide/oxides

## Section 11. Toxicological information

A. Information on the likely routes of exposure

ly : Not available.

#### Potential acute health effects

Inhalation	: Harmful if inhaled. Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Ingestion	: Can cause central nervous system (CNS) depression.
Skin contact	: Causes skin irritation. Defatting to the skin.
Eye contact	: Causes serious eye irritation.
Over-exposure sig	ns/symptoms
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	: Adverse symptoms may include the following: pain or irritation watering redness

# Section 11. Toxicological information

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#### B. Health hazards

#### Acute toxicity

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	-
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	-
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	-
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	-
29H,31H-phthalocyaninato(2-)-N29, N30,N31,N32 copper	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5.1 g/kg	_
titanium dioxide	LC50 Inhalation Dusts and	Rat	>6.82 mg/l	4 hours
	mists	i lat	1 0.02 mg/i	Thouro
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
Toluene	LC50 Inhalation Vapor	Rat	49 g/m³	4 hours
	LD50 Dermal	Rabbit	8.39 g/kg	-
	LD50 Oral	Rat	5580 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name		Result	Species	Score	Exposure	Observation
Xylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary			•		•	•
Skin	: T	here are no data available o	n the mixture i	tself.		
Eyes	: Т	here are no data available o	n the mixture i	tself.		
Respiratory	: Т	here are no data available o	n the mixture i	tself.		
Conclusion/Summary Skin :	Skin : There are no data available on the mixture itself.					
Mutagenicity						
Conclusion/Summary						
<b>Carcinogenicity</b>						
Conclusion/Summary	: TI	here are no data available oi	n the mixture i	tself.		
Reproductive toxicity						

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### Section 11. Toxicological information

**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
Xylene Talc , not containing asbestiform fibres	Category 3 Category 3	-	Narcotic effects Respiratory tract irritation
2-methoxy-1-methylethyl acetate n-butyl acetate Toluene dodecyltrimethylammonium chloride	Category 3 Category 3 Category 3 Category 3	- - -	Narcotic effects 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
Toluene	Category 2	-	-

#### **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.
Carcinogenicity	: May cause 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. 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.

# Section 11. Toxicological information

Chemical name	Identifiers	GHS Classification
Xylene	CAS: 1330-20-7 EC: 215-535-7	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
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	EC: 238-877-9	
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 EC: 203-603-9	FLAMMABLE LIQUIDS - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
n-butyl acetate	CAS: 123-86-4 EC: 204-658-1	FLAMMABLE LIQUIDS - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
ethylbenzene	CAS: 100-41-4 EC: 202-849-4	FLAMMABLÉ LIQUIDS - Category 2 ACUTE TOXICITY (inhalation) - Category 4 CARCINOGENICITY - Category 2 ASPIRATION HAZARD - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 3
29H,31H-phthalocyaninato(2-)-N29,N30, N31,N32 copper		Not classified.
titanium dioxide	EC: 205-685-1 CAS: 13463-67-7 EC: 236-675-5	CARCINOGENICITY - Category 2
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B
	EC: 255-437-1	TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
crystalline silica, respirable powder (<10 microns)	CAS: 14808-60-7	CARCINOGENICITY - Category 1A
Toluene	EC: 238-878-4 CAS: 108-88-3 EC: 203-625-9	FLAMMABLE LIQUIDS - Category 2 SKIN IRRITATION - Category 2 TOXIC TO REPRODUCTION - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
dodecyltrimethylammonium chloride	CAS: 112-00-5 EC: 203-927-0	EXPOSURE) (Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 ASPIRATION HAZARD - Category 1 ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 AQUATIC HAZARD (ACUTE) - Category 1

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### Section 12. Ecological information

#### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
P-methoxy-1-methylethyl acetate	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
5	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32 copper	Acute LC50 >100 mg/l	Fish	96 hours
titanium dioxide dodecyltrimethylammonium chloride	Acute LC50 >100 mg/l Fresh water Acute EC50 0.09 mg/l	Daphnia - <i>Daphnia magna</i> Algae	48 hours 96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
2-methoxy-1-methylethyl acetate	-	83 % - Rea	adily - 28 days	-		-
n-butyl acetate	TEPA and OECD 301D	83 % - Rea	adily - 28 days	-		-
ethylbenzene	-	79 % - Rea	adily - 10 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	gradability
<b>X</b> ylene	-		-		Readily	1
2-methoxy-1-methylethyl acetate	-		-		Readily	,
n-butyl acetate	-		-		Readily	,
ethylbenzene	-		-		Readily	,
Toluene	-		-		Readily	
dodecyltrimethylammonium chloride	-		-		Readily	,

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
n-butyl acetate	2.3	-	Low
ethylbenzene	3.6	79.43	Low
29H,31H-phthalocyaninato (2-)-N29,N30,N31,N32	6.6	-	High
copper Toluene	2.73	8.32	Low
		0.52	
dodecyltrimethylammonium chloride	≤4	-	Low

#### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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### Section 12. Ecological information

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

### Section 13. Disposal considerations

Α.	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
Environmental hazards	No.	No.	No.
E. Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

UN	: This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to
	2.3.2.5.1.

- IMDG : This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.
- IATA : 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.

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### Section 14. Transport information

Transport in bulk according : Not applicable. to IMO instruments

# Section 15. Regulatory information

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Α.	Regulation according to	SF			
	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 Chem	lica	I Substances and Physical Factors		
	The following components	s ha	ave an OEL:		
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	-	The following components are listed: toluene		
	ISHA Enforcement Regs Annex 11-5 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: xylene, talc / soapstone, n-butyl acetate, ethyl benzene, titanium dioxide		
	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, ethyl benzene, copper and its compounds, titanium dioxide		
В.	3. 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)	:	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.		

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### Section 15. Regulatory information

	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	At least one component is not listed.
	Article 39 (Accident Precaution Chemicals)	:	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	1	Dispose of contents and container in accordance with all local, regional, national and international regulations.
E. <u>Regulation according to other foreign laws</u>			
	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

Α.	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	: 3/3/2020	
C.	Date of issue/Date of revision	: 1/16/2025	
D.	Version	: 3.03	
	Prepared by	: EHS	
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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.