# SAFETY DATA SHEET



Date of issue 8/18/2023 (month/day/year)

Version 12.01

### Section 1. Chemical product and company identification

A. Product name<br/>Product code: SIGMADUR 520 (GLOSS 10-15%) BASE RAL 9016<br/>: 00340178

### 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
Email Address	Korea.MSDS@PPG.COM
Emergency telephone number:	: +82-52-210-8222

## Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3 SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A 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

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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## Section 2. Hazards identification

	Hazard statements	-	<ul> <li>H226 - Flammable liquid and vapor.</li> <li>H315 - Causes skin irritation.</li> <li>H319 - Causes serious eye irritation.</li> <li>H336 - May cause drowsiness or dizziness.</li> <li>H351 - Suspected of causing cancer.</li> <li>H372 - Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS), kidneys, liver)</li> <li>H412 - Harmful to aquatic life with long lasting effects.</li> </ul>
	<b>Precautionary statements</b>		
	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>P260 - Do not breathe vapor.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>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>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.
<b>)</b> .	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

С

CAS number :

: Not applicable.

Chemical name	Common name	Identifiers	%
Xylene	XYLENES	CAS: 1330-20-7	10 -<20
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	10 -<20
Talc , not containing asbestiform fibres	Talc, non-asbestos form	CAS: 14807-96-6	10 -<20
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
Solvent naphtha (petroleum), light	SOLVENT NAPHTHA (PETROLEUM),	CAS: 64742-95-6	1 - <5
aromatic	LIGHT AROMATIC		
2-methoxy-1-methylethyl acetate	1-METHOXY-2-PROPYL ACETATE	CAS: 108-65-6	1 - <5
1,2,4-trimethylbenzene	1,2,4-TRIMETHYL BENZENE	CAS: 95-63-6	1 - <5
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	0.1 - <1
sebacate	SEBACATE		
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### Section 3. Composition/information on ingredients

titanium dioxide (<10 microns)	TITANIUM DIOXIDE (<10 microns)	CAS: 13463-67-7	0.1 - <1
propylidynetrimethanol	TRIMETHYLOLPROPANE	CAS: 77-99-6	0.1 - <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.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	1	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 sulfur oxides metal oxide/oxides

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### Section 5. Fire-fighting measures

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

### Section 7. Handling and storage

A. 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.

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## Section 7. Handling and storage

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 contamination. See Section 10 for incompatible materials before handling or use.
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## Section 8. Exposure controls/personal protection

#### A. Occupational exposure limits

Ingredient name		Exposure limits
<b>K</b> ylene titanium dioxide		Ministry of Employment and Labor (Republic of Korea, 1/2020). [Xylene (all isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. 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 asbe	stiform fibres	Ministry of Employment and Labor (Republic of Korea, 1/2020).
ethylbenzene		TWA: 2 mg/m <sup>3</sup> 8 hours. Form: fibers <b>Ministry of Employment and Labor</b> <b>(Republic of Korea, 1/2020).</b> STEL: 125 ppm 15 minutes.
1,2,4-trimethylbenzene		TWA: 100 ppm 8 hours. <b>Ministry of Employment and Labor</b> (Republic of Korea, 1/2020). [Trimethyl benzene (mixed isomers)] TWA: 25 ppm 8 hours.
titanium dioxide (<10 micr	ons)	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
Recommended monitoring procedures		ppropriate monitoring standards. Reference to or methods for the determination of hazardous I.
Appropriate engineering controls	ventilation or other engineering contaminants below any recom	on. Use process enclosures, local exhaust controls to keep worker exposure to airborne mended or statutory limits. The engineering contro dust concentrations below any lower explosive tilation equipment.
Environmental exposure controls		ork process equipment should be checked to ensunts 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.

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### Section 8. Exposure controls/personal protection

C.	Personal protective equipment			
	Respiratory protection	spirator selection must be based on known or anticipated zards of the product and the safe working limits of the sele rkers are exposed to concentrations above the exposure propriate, certified respirators. Use a properly fitted, air-pu- pirator complying with an approved standard if a risk asso cessary.	cted respirator. If imit, they must use irifying or air-fed	
	Eye protection	emical splash goggles.		
	Hand protection	emical-resistant, impervious gloves complying with an app worn at all times when handling chemical products if a ris is is necessary. Considering the parameters specified by t eck during use that the gloves are still retaining their prote build be noted that the time to breakthrough for any glove r ferent for different glove manufacturers. In the case of mi- veral substances, the protection time of the gloves cannot timated.	k assessment indicates ne glove manufacturer, ctive properties. It naterial may be ktures, consisting of	
	Gloves	r prolonged or repeated handling, use the following type o	gloves:	
		commended: neoprene, natural rubber (latex), polyvinyl a tyl rubber iy be used: nitrile rubber, Chloroprene	cohol (PVA), Viton®,	
	Body protection	rsonal protective equipment for the body should be selecting performed and the risks involved and should be appro fore handling this product. When there is a risk of ignition ar anti-static protective clothing. For the greatest protection charges, clothing should include anti-static overalls, boots	/ed by a specialist from static electricity, on from static	
	Hygiene measures	ash hands, forearms and face thoroughly after handling ch ting, smoking and using the lavatory and at the end of the propriate techniques should be used to remove potentially ash contaminated clothing before reusing. Ensure that ey fety showers are close to the workstation location.	working period. contaminated clothing.	

## **Section 9. Physical and chemical properties**

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

Α.	Appearance		
	Physical state	:	Liquid.
	Color	:	White.
В.	Odor	:	Aromatic.
С.	Odor threshold	:	Not available.
D.	рН	:	Not applicable.
Ε.	Melting/freezing point	:	Not available.
Ε.	Boiling point/boiling	:	>37.78°C (>100°F)
	range		
G.	Flash point	1	Closed cup: 30°C (86°F)
н.	Evaporation rate	;	Not available.
Ι.	Flammability (solid, gas)	:	Not available.

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Section 9. Physical and chemical properties

J.	Lower and upper explosive (flammable) limits	:	Greatest known rang light aromatic)	ge: Lower:	1.4% Up	oper: 7.6% (	Solvent	naphtha (p	oetroleum),	
K.	Vapor pressure	:		Vapo	<sup>r</sup> Pressu	re at 20°C	Va	por press	sure at 50°C	
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
			ethylbenzene	9.3	1.2					
	Solubility(ies)		Media	Re	sult	<u> </u>				
			cold water	No	t soluble					
	Solubility in water	:	Not available.							
И.	Vapor density	1	Not available.							
VI. N.	Relative density	1	1.38							
ч. О.	Partition coefficient: n- octanol/water	:	Not applicable.							
P.	Auto-ignition temperature	:								
			Ingredient name		°C	°F		Method		
			Solvent naphtha (petrole aromatic	um), light	280 to 47	70 536 to 5	878			
Q.	Decomposition temperature	1	Not available.							
R.	Viscosity	1	Kinematic (room terr Kinematic (40°C (104				St)			
	Flow time (ISO 2431)	:	Not available.							
S.	Molecular weight	:	Not applicable.							

## 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 sulfur oxides metal oxide/oxides

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## Section 11. Toxicological information

Α.	Information on the likel routes of exposure	y : Not available.
<u>P</u>	otential acute health effe	ects
	Inhalation	: 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.
<u>0</u>	ver-exposure signs/sym	<u>ptoms</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	Adverse symptoms may include the following: pain or irritation watering redness

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

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
<b>X</b> γlene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 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	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/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	_
1,2,4-trimethylbenzene	LC50 Inhalation Vapor	Rat	18000 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat	5 g/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
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	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	-

Product/ingredient name		Result	Species	Score	Exposure	Observation
<b>X</b> ylene		Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary						
Skin	: T	here are no data available	on the mixture i	tself.		
Eyes	: T	here are no data available	on the mixture i	tself.		
Respiratory	: Т	here are no data available	on the mixture i	tself.		
<u>Sensitization</u> <u>Conclusion/Summary</u> Skin Respiratory	•	ere are no data available o ere are no data available o				
<u>Mutagenicity</u> Conclusion/Summary	: TI	nere are no data available c	on the mixture it	self.		
<u>Carcinogenicity</u> Conclusion/Summary	: Т	here are no data available	on the mixture i	tself.		
Reproductive toxicity Conclusion/Summary	: Т	here are no data available	on the mixture i	itself.		
Teratogenicity Conclusion/Summary	• т	here are no data available	on the mixture i	itself		

### Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
Xylene	Category 3	-	Narcotic effects
Talc , not containing asbestiform fibres	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aromatic	Category 3	-	Narcotic effects
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
1,2,4-trimethylbenzene	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

### Section 11. Toxicological information

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

#### **Aspiration hazard**

Name	Result
	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aromatic	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	: 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. 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
Xylene	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
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
Talc , not containing asbestiform fibres	CAS: 14807-96-6	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - 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
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
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## Section 11. Toxicological information

		AQUATIC HAZARD (LONG-TERM) - Category 2
2-methoxy-1-methylethyl acetate	CAS: 108-65-6	FLAMMABLE LIQUIDS - Category 3
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Narcotic effects) - Category 3
1,2,4-trimethylbenzene	CAS: 95-63-6	FLAMMABLE LIQUIDS - Category 3
		ACUTE TOXICITY (inhalation) - Category 4
		SKIN IRRITATION - Category 2
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE
		EXPOSURE) (Respiratory tract irritation) -
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	CAS: 41556-26-7	AQUATIC HAZARD (LONG-TERM) - Category 2 SKIN SENSITIZATION - Category 1B
sebacate	CAS. 41550-20-7	SKIN SENSITIZATION - Calegory 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

## Section 12. Ecological information

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

Product/ingredient name	Result	Species	Exposure
<b>ti</b> tanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
Solvent naphtha	Acute LC50 8.2 mg/l	Fish	96 hours
(petroleum), light aromatic	, i i i i i i i i i i i i i i i i i i i		
2-methoxy-1-methylethyl	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
acetate titanium dioxide (<10	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
microns)	Acute LC50 > 100 mg/l Fresh water	Dapinna - Dapinna magna	40 110015
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

#### B. Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
ethylbenzene 2-methoxy-1-methylethyl acetate	-		adily - 10 days adily - 28 days	-		-
Product/ingredient name	Aquatic half-life	•	Photolysis		Biodeg	gradability
Xylene ethylbenzene 2-methoxy-1-methylethyl acetate	- - -		- - -		Readily Readily Readily	/

#### C. Bioaccumulative potential

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## Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
<b>X</b> ylene	3.12	7.4 to 18.5	Low
ethylbenzene	3.6	79.43	Low
2-methoxy-1-methylethyl acetate	1.2	-	Low
1,2,4-trimethylbenzene propylidynetrimethanol	3.63 -0.47	120.23 -	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

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.
в.	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

**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	IATA	
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.	

### Section 14. Transport information

#### 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	<ul> <li>This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.3.2.5.</li> </ul>
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.	Regulation according to I	ISHA
	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	ical Substances and Physical Factors
	The following components have an OEL: Vylene titanium dioxide Talc , not containing asbestiform fibres ethylbenzene 1,2,4-trimethylbenzene titanium dioxide (<10 microns)	
ISHA Enforcement Regs : None of the components are listed. 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: xylene, titanium dioxide, talc / soapstone, ethyl benzene
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	: The following components are listed: Xylene, Ethyl benzene

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## Section 15. Regulatory information

	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: xylene, titanium dioxide, ethyl benzene
В.	Regulation according to (	Ch	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Xylene including o-,m-,p- isomer, Barium and its compounds, Ethylbenzene
	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)	1	Not applicable
	Korea inventory	:	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.	Regulation according to o	oth	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).

## 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.	Date of issue/Date of revision	: 8/18/2023
<b>C</b> .	Version	: 12.01
	Prepared by	: EHS
D.	Other	

✓ Indicates information that has changed from previously issued version.

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### Section 16. Other information

#### **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.