# **SAFETY DATA SHEET**



Date of issue 12/30/2024 (month/day/year)

Version 3

### Section 1. Chemical product and company identification

Α.	Product name	1	PSX 500 BASE RAL 9001
	Product code	1	00441739

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

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

### Section 2. Hazards identification

A. Hazard classification	: FLAMMABLE LIQUIDS - Category 3
	SKIN IRRITATION - Category 2
	EYE IRRITATION - Category 2A
	SKIN SENSITISATION - Category 1
	CARCINOGENICITY - Category 2
	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
	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

: Warning

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### Section 2. Hazards identification

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	Hazard statements	:	<ul> <li>H226 - Flammable liquid and vapour.</li> <li>H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H351 - Suspected of causing cancer.</li> <li>H373 - May cause damage to organs through prolonged or repeated exposure.</li> <li>(central nervous system (CNS), kidneys, liver)</li> <li>H411 - Toxic to aquatic life with long lasting effects.</li> </ul>
	Precautionary statements	5	
	Prevention	:	<ul> <li>202 - 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> <li>P273 - Avoid release to the environment.</li> <li>P260 - Do not breathe vapour.</li> <li>P264 - Wash thoroughly after handling.</li> </ul>
	Response	:	<ul> <li>P391 - Collect spillage.</li> <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>P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</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> <li>P321 - Specific treatment (see the label).</li> </ul>
	Storage	÷	P403 + P235 - Store in a well-ventilated place. Keep cool.
	Disposal		P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
).	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** 

С

: Not applicable.

### Section 3. Composition/information on ingredients

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Chemical name	Common name	Identifiers	%
4,4'-Isopropylidenedicyclohexanol,	cyclohexanol, 4,4'-(1-methylethylidene)	CAS: 30583-72-3	20 -
oligomeric reaction products with	bis-, polymer with (chloromethyl)oxirane		<30
1-chloro-2,3-epoxypropane			
		EC: 500-070-7	
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	20 -
			<30
		EC: 236-675-5	
hexamethylene diacrylate	1,6-Hexanediol diacrylate	CAS: 13048-33-4	5 - <10
		EC: 235-921-9	
ethylbenzene	ETHYLBENZENE	CAS: 100-41-4	5 - <10
		EC: 202-849-4	
Xylene	XYLENES	CAS: 1330-20-7	1 - <5
		EC: 215-535-7	
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	BIS(PENTAMETHYLPIPERIDYL)	CAS: 41556-26-7	1 - <5
sebacate	SEBACATE		
		EC: 255-437-1	
nonylphenol ethoxylates	POLYOXYETHYLENE NONYLPHENYL	CAS: 68412-53-3	0.1 - <1
	ETHER PHOSPHATE		
methyl 1,2,2,6,6-pentamethyl-4-piperidyl	METHYL-(1,2,2,6,6-PENTAMETHYL-	CAS: 82919-37-7	0.1 - <1
sebacate	4-PIPERDIYL) SEBACATE		
		EC: 280-060-4	
titanium dioxide (<10 microns)	TITANIUM DIOXIDE (<10 microns)	CAS: 13463-67-7	0.1 - <1
		EC: 236-675-5	
propylidynetrimethanol	TRIMETHYLOLPROPANE	CAS: 77-99-6	0.1 - <1
		EC: 201-074-9	

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. In case of accidental eye contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation or blistering occurs after contact.
В.	Skin contact	:	Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised 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 the 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.
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Section 4. Fir	rst aid measures	
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Specific treatments	4	No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training. 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. Firefighting measures

	•		
Α.	Extinguishing media		
	Suitable extinguishing media	:	Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Flammable liquid and vapour. 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 toxic 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 halogenated compounds 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
B. Environmental precautions	:	Avoid dispersal of spilt 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. Collect spillage.

#### C. Methods and material 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 the 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 spilt 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). 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 vapour 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.
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 oxidising 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 unlabelled 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
<mark>∕ f</mark> itanium dioxide	ISHA Article 42 (Republic of Korea,
	1/2020)
	TWA 8 hours: 10 mg/m <sup>3</sup> .
ethylbenzene	ISHA Article 42 (Republic of Korea,
	1/2020)
	STEL 15 minutes: 125 ppm.
	TWA 8 hours: 100 ppm.
Xylene	ISHA Article 42 (Republic of Korea,
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### Section 8. Exposure controls/personal protection

	titanium dioxide (<10 micro			1/2020) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. ISHA Article 42 (Republic of Korea, 1/2020) TWA 8 hours: 10 mg/m <sup>3</sup> .
	Recommended monitoring procedures	•		ate monitoring standards. Reference to ods for the determination of hazardous
В.	Appropriate engineering controls	:		s to keep worker exposure to airborne d or statutory limits. The engineering controls concentrations below any lower explosive
Environmental exposure controls : Emissions from ventilation or work process equip they comply with the requirements of environmen cases, fume scrubbers, filters or engineering mod equipment will be necessary to reduce emissions				nvironmental protection legislation. In some eering modifications to the process
<b>C</b> .	Personal protective equip	me	nt	
	Respiratory protection		hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use respirator complying with an approved necessary.	n known or anticipated exposure levels, the orking limits of the selected respirator. If s above the exposure limit, they must use a properly fitted, air-purifying or air-fed I standard if a risk assessment indicates this is
	Eye protection		Chemical splash goggles.	
	Hand protection	:	be worn at all times when handling che this is necessary. Considering the par check during use that the gloves are s should be noted that the time to break	rers. In the case of mixtures, consisting of
	Gloves	4	polyethylene butyl rubber	
	Body protection		being performed and the risks involved before handling this product. When the wear anti-static protective clothing. For discharges, clothing should include an	iti-static overalls, boots and gloves.
I	Hygiene measures	:	eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no	d to remove potentially contaminated clothing. of 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.

Α.	Appearance			
	Physical state	1	Liquid.	
	Colour	1	Not available.	
В.	Odour	1	Characteristic.	
С.	Odour threshold	1	Not available.	
D.	рН	1	Not applicable.	
Ε.	Melting/freezing point	1	Not available.	
F.	Boiling point/boiling range	:	>37.78°C (>100°F)	
G.	Flash point	:	Closed cup: 46°C (11	4.8°F)
н.	Evaporation rate	:	Not available.	
Т.	Flammability (solid, gas)	:	Not available.	
J.	Lower and upper explosive (flammable) limits	:	Not available.	
к.	Vapour pressure	1		Vapo

κ.	Vapour pressure	:		Vapoι	ır Press	ure at 20°C	Vap	our pres	sure at 50°C
			Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
			ethylbenzene	9.30076	1.2				
L.	Solubility(ies)		Media	Re	sult	•	•	•	
			cold water	No	t soluble	9			
	Solubility in water	:	Not available.						
М.	Vapour density	1	Not available.						
N.	Relative density	1	1.45						
<b>O</b> .	Partition coefficient: n- octanol/water	1	Not applicable.						
Ρ.	Auto-ignition temperature	1							
			Ingredient name		°C	°F	I	Method	
			hexamethylene diacrylate	e	235	455	C	DIN 51794	
Q.	Decomposition temperature	:	Not available.						
R.	Viscosity		Øynamic (room temµ Kinematic (room tem Kinematic (40°C (10	nperature)	: Not ava	ailable.			
	Flow time (ISO 2431)	1	Not available.						
S.	Molecular weight	:	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.
<b>C</b> .	Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising 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 halogenated compounds metal oxide/oxides
		-	

### Section 11. Toxicological information

A. Information on lik of exposure	ely routes : Not available.
Potential acute heal	th effects
Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye irritation.
Over-exposure sign	<u>s/symptoms</u>
Inhalation	: No specific data.
la se eff e se	· Ne sus site state

	- ···
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
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	-
hexamethylene diacrylate	LD50 Dermal	Rabbit	3.65 g/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
Xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
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## Section 11. Toxicological information

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	LD50 Oral	Rat	4.3 g/kg	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
titanium dioxide (<10 microns)	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-

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

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
₩ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Conclusion/Summary	<u> </u>				

Skin	1	There are no data available on the mixture itself.
Eyes	1	There are no data available on the mixture itself.

:	I here are no	data ava	allable on i	the	mixture its	elt.

Respiratory	1	There are no data available on the mixture itself.
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#### **Sensitisation**

	1				
Product/ingredient name	Route of exposure	Species		Result	
hexamethylene diacrylate	skin	Guinea pig	l	Sensitising	
Conclusion/Summary		1		I	
Skin :	There are no data a	available on	the mixture itself		
Respiratory :	There are no data a	available on	the mixture itself		
<u>Mutagenicity</u> Conclusion/Summary :	There are no data	available or	the mixture itsel	f.	
<u>Carcinogenicity</u> Conclusion/Summary :	There are no data	available or	n the mixture itse	lf.	
Reproductive toxicity Conclusion/Summary :	There are no data	available o	n the mixture itse	lf.	
<u>Teratogenicity</u> Conclusion/Summary :	There are no data	ı available o	n the mixture itse	lf.	
Specific target organ toxicit	<u>y (single exposure</u>	<u>e)</u>			
Name			Classification	Route of	Target organs

Name	Classification	Route of exposure	Target organs
Xylene	Category 3	-	Narcotic effects

### Section 11. Toxicological information

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
ethylbenzene	ASPIRATION HAZARD - Category 1

#### Potential chronic health effects

General	: May cause 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 Reproductive toxicity	<ul><li>No known significant effects or critical hazards.</li><li>No known significant effects or critical hazards.</li></ul>

#### **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 vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Acrylate components of the mixture have irritating properties. Prolonged or repeated contact with skin or mucous membrane may result in irritation symptoms, such as redness, blistering, dermatitis etc. May cause allergic skin reactions with repeated exposure. The inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may cause nausea, weakness and central nervous system effects. In case of accidental skin contact, avoid direct exposure to the sun or other sources of UV light as severe irritation including burns may result. These reactions can be delayed – get medical attention if pain, irritation, rash or blistering occurs after contact. Avoid contact with skin and clothing.

Chemical name	Identifiers	GHS Classification
4.4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	CAS: 30583-72-3	SKIN SENSITISATION - Category 1B
	EC: 500-070-7	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
titanium dioxide	CAS: 13463-67-7 EC: 236-675-5	CARCINOGENICITY - Category 2
hexamethylene diacrylate	CAS: 13048-33-4 EC: 235-921-9	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITISATION - Category 1B SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
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### Section 11. Toxicological information

ethylbenzene	CAS: 100-41-4	FLAMMABLE LIQUIDS - Category 2
	EC: 202-849-4	ACUTE TOXICITY (inhalation) - Category 4
		CARCINOGENICITY - Category 2
		ASPIRATION HAZARD - Category 1
		LONG-TERM (CHRONIC) AQUATIC HAZARD -
		Category 3
Xylene	CAS: 1330-20-7	FLAMMABLE LIQUIDS - Category 3
,	EC: 215-535-7	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
bis(1,2,2,6,6-pentamethyl-4-piperidyl)	CAS: 41556-26-7	SKIN SENSITISATION - Category 1B
sebacate		
	EC: 255-437-1	REPRODUCTIVE TOXICITY - Category 2
		SHORT-TERM (ACUTE) AQUATIC HAZARD -
		Category 1
		LONG-TERM (CHRONIC) AQUATIC HAZARD -
		Category 1
nonylphenol ethoxylates	CAS: 68412-53-3	ACUTE TOXICITY (oral) - Category 4
		ACUTE TOXICITY (dermal) - Category 4
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 82919-37-7	SKIN SENSITISATION - Category 1B
	EC: 280-060-4	REPRODUCTIVE TOXICITY - Category 2
		SHORT-TERM (ACUTE) AQUATIC HAZARD -
		Category 1
		LONG-TERM (CHRONIC) AQUATIC HAZARD -
		Category 1
titanium dioxide (<10 microns)	CAS: 13463-67-7	CARCINOGENICITY - Category 2
	EC: 236-675-5	
propylidynetrimethanol	CAS: 77-99-6	REPRODUCTIVE TOXICITY - Category 2
	EC: 201-074-9	

### Section 12. Ecological information

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

Product/ingredient name	Result	Species	Exposure
4,4'-	LC50 11.5 mg/l	Fish	96 hours
Isopropylidenedicyclohexanol,			
oligomeric reaction			
products with 1-chloro-			
2,3-epoxypropane			
titanium 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	-
titanium dioxide (<10	Acute LC50 >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
microns)			
propylidynetrimethanol	Acute LC50 >1000 mg/l	Fish	96 hours

#### B. <u>Persistence and degradability</u>

#### Section 12. Ecological information

Product/ingredient name	Test Result			Dose		Inoculum
ethylbenzene	-	79 % - Readily - 10 days				-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
<mark>e</mark> thylbenzene Xylene	-		-		Readily Readily	

#### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
Fexamethylene diacrylate	2.81	-	Low	
ethylbenzene	3.6	79.43	Low	
Xylene	3.12	7.4 to 18.5	Low	
propylidynetrimethanol	-0.47	-	Low	

#### D. Mobility in soil

Soil/water partition : Not available. coefficient (K<sub>oc</sub>)

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 minimised 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. Vapour 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

#### Section 14. Transport information

	UN	IMDG	ΙΑΤΑ		
A. UN number	UN1263	UN1263	UN1263		
B. UN proper shipping name	PAINT	PAINT	PAINT		
C. Transport hazard class(es)	3	3	3		
D. Packing group	III	III	III		
		Korea	Korea (GHS) Page: 12/15		

#### Section 14. Transport information

Environmental Yes. The environmentally hazardous substance mark is not required.		Yes.	Yes. The environmentally hazardous substance mark is not required.
E. Marine Not applicable. pollutant substances		(hexamethylene diacrylate)	Not applicable.

#### **Additional information**

UN	: None identified.
IMDG	: The marine pollutant mark is not required when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.

# 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.	A. <u>Regulation according to ISHA</u>				
	ISHA article 117 (Harmful substances prohibited from manufacture)		None of the components are listed.		
	ISHA article 118 (Harmful substances requiring permission)	:	None of the components are listed.		
	Article 2 of Youth Protection Act on Substances Hazardous to Youth	:	It is not allowed to sell to persons under the age of 19.		

#### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL:

 ISHA Enforcement Regs
 : None of the components are listed.

 Annex 19 (Exposure standards established for harmful factors)
 : The following components are listed: titanium dioxide, ethyl benzene, xylene Annex 11-5 (Harmful factors subject to Work Environment Measurement)

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### Section 15. Regulatory information

	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Ethyl benzene, Xylene		
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	•	The following components are listed: titanium dioxide, ethyl benzene, xylene		
В.	Regulation according to Chemicals Control Act				
	Article 11 (TRI)	:	The following components are listed: Barium and its compounds, Ethylbenzene, Xylene including o-,m-,p- isomer		
	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)	:	The following components are listed: nonylphenol ethoxylates		
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable		
	Korea inventory	:	All components are listed or exempted.		
	Article 39 (Accident Precaution Chemicals)	:	The following components are listed: nonylphenol ethoxylates		
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.		
Е.	Regulation according to o	oth	<u>er 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

A. References	<ul> <li>Korean Ministry of Environment; Chemical Control Act Korean Ministry of Labor; Industrial Safety and Health Act NIER Notice</li> <li>Registry of Toxic Effects of Chemical Substances (RTECS)</li> <li>U.S. Environmental Protection Agency, AQUIRE (Aquatic toxicity Information Retrieval) ECOTOX Database System.</li> </ul>
B. First issue date	: 12/16/2020

### Section 16. Other information

C.	Date of issue/Date of revision	:	12/30/2024
D.	Version	:	3
	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.