SAFETY DATA SHEET



Date of issue 2/1/2024 (month/day/year)

Version 6.01

Section 1. Chemical product and company identification

Α.	Product name	:	PSX 700 BASE RAL 3002
	Product code	1	00289179

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

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

Section 2. Hazards identification

A. Hazard classification : FLAMMABLE LIQUIDS - Category 4 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 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	: Warning
Hazard statements	: H227 - Combustible liquid. H317 - May cause an allergic skin reaction.
	H351 - Suspected of causing cancer. H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements

Product name PSX 700 BASE RAL 3002

Section 2. Hazards identification

 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P273 - Avoid release to the environment. P261 - Avoid breathing vapor.
 P308 + P313 - IF exposed or concerned: Get medical advice or attention. P362 + P364 - Take off contaminated clothing and wash it before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
: Not applicable.
: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

C. Other hazards which do : None known. not result in classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number

: Not applicable.

Chemical name	Common name	Identifiers	%
4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	cyclohexanol, 4,4'-(1-methylethylidene) bis-, polymer with (chloromethyl)oxirane	CAS: 30583-72-3	30 - <40
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	BIS(PENTAMETHYLPIPERIDYL) SEBACATE	CAS: 41556-26-7	1 - <5
titanium dioxide	TITANIUM DIOXIDE	CAS: 13463-67-7	1 - <5
nonylphenol ethoxylates	POLYOXYETHYLENE NONYLPHENYL ETHER PHOSPHATE	CAS: 68412-53-3	0.1 - <1
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	METHYL-(1,2,2,6,6-PENTAMETHYL- 4-PIPERDIYL) SEBACATE	CAS: 82919-37-7	0.1 - <1
methyl alcohol	METHYL ALCOHOL	CAS: 67-56-1	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

A. 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.

B. 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.

Section 4. First aid measures

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.
Ε.	Notes to physician Specific treatments		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. No specific treatment.
	Specific treatments	1	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. Fire-fighting measures

Α.	Extinguishing media		
	Suitable extinguishing media	1	Use dry chemical, CO ₂ , water spray (fog) or foam.
	Unsuitable extinguishing media	:	Do not use water jet.
В.	Specific hazards arising from the chemical	:	Combustible liquid. 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 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.

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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	СС	ontainment 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

Α.	Precautions for safe handling	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. 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 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
Manium dioxide methyl alcohol		Ministry of Employment and Labor (Republic of Korea, 1/2020). TWA: 10 mg/m ³ 8 hours. Form: total dust with less than 1% of free SiO2 Ministry of Employment and Labor (Republic of Korea, 1/2020). Absorbed through skin. STEL: 250 ppm 15 minutes. TWA: 200 ppm 8 hours.
Recommended monitoring procedures		opriate monitoring standards. Reference to ethods for the determination of hazardous
3. Appropriate engineering controls	ventilation or other engineering cont contaminants below any recommen	Use process enclosures, local exhaust trols to keep worker exposure to airborne ded or statutory limits. The engineering controls st concentrations below any lower explosive on equipment.
Environmental exposure controls	they comply with the requirements c	process equipment should be checked to ensure of environmental protection legislation. In some gineering modifications to the process ace emissions to acceptable levels.
C. Personal protective equip	ment	
Respiratory protection	hazards of the product and the safe workers are exposed to concentrati appropriate, certified respirators. U respirator complying with an approv necessary.	d on known or anticipated exposure levels, the e working limits of the selected respirator. If ions above the exposure limit, they must use Jse a properly fitted, air-purifying or air-fed ved standard if a risk assessment indicates this is
Eye protection	: Safety glasses with side shields.	
Hand protection	be worn at all times when handling this is necessary. Considering the check during use that the gloves ar should be noted that the time to bre different for different glove manufac	ves complying with an approved standard should chemical products if a risk assessment indicates parameters specified by the glove manufacturer, re still retaining their protective properties. It eakthrough for any glove material may be cturers. In the case of mixtures, consisting of time of the gloves cannot be accurately
Gloves	: butyl rubber	
Body protection	being performed and the risks invol	he body should be selected based on the task lved and should be approved by a specialist
	before handling this product.	
Hygiene measures	: Wash hands, forearms and face the eating, smoking and using the laval Appropriate techniques should be u Contaminated work clothing should	oroughly after handling chemical products, before tory and at the end of the working period. used to remove potentially contaminated clothing I not be allowed out of the workplace. Wash ng. Ensure that eyewash stations and safety on location.

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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.

	•			
А.	Appearance			
	Physical state		Liquid.	
	Color		Red.	
В.	Odor		Aromatic.	
С.	Odor threshold	÷	Not available.	
D.	рН	1	Not applicable.	
Ε.	Melting/freezing point	4	Not available.	
F.	Boiling point/boiling range	:	>37.78°C (>100°F)	
G.	Flash point	:	Closed cup: 70°C (158°F)	
Н.	Evaporation rate	:	Not available.	
Т.	Flammability (solid, gas)	:	Not available.	
J.	Lower and upper explosive (flammable) limits	:	Not available.	
Κ.	Vapor pressure	:	Not available.	
L.	Solubility(ies)	:	Media	Result
L.	Solubility(ies)	:	Media cold water	Result Not soluble
L.	Solubility(ies) Solubility in water	:		
			cold water	
М.	Solubility in water	:	cold water Not available.	
	Solubility in water Vapor density	:	cold water Not available. Not available.	
М. N.	Solubility in water Vapor density Relative density Partition coefficient: n-	: : :	cold water Not available. Not available. 1.27	
M. N. O.	Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water Auto-ignition		cold water Not available. Not available. 1.27 Not applicable.	
М. N. О. Р. Q.	Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition		cold water Not available. Not available. 1.27 Not applicable. Not available.	Not soluble
М. N. О. Р.	Solubility in water Vapor density Relative density Partition coefficient: n- octanol/water Auto-ignition temperature Decomposition temperature		cold water Not available. Not available. 1.27 Not applicable. Not available. Not available.	Not soluble

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.
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Section 10. Stability and reactivity

 D. Hazardous decomposition products
 Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ oxides

Section 11. Toxicological information

A. Information on the likely routes of exposure

: Not available.

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Eye contact	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Eye contact	: No specific data.

B. Health hazards

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
sebacate	LD50 Oral	Rat	3.125 g/kg	-
titanium dioxide	LC50 Inhalation Dusts and mists	Rat	>6.82 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
methyl alcohol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

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

Irritation/Corrosion

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

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

Section 11. Toxicological information

Mutagenicity

Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity Conclusion/Summary	: There are no data available on the mixture itself.
<u>Teratogenicity</u> Conclusion/Summary	: There are no data available on the mixture itself.

Specific target organ toxicity (single exposure)

Name	Classification	Route of exposure	Target organs
methyl alcohol	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Potential chronic health effects

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

Additional information

Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness.

Chemical name	Identifiers	GHS Classification	
4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	CAS: 30583-72-3	SKIN SENSITIZATION - Category 1B	
		AQUATIC HAZARD (LONG-TERM) - Category 3	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	CAS: 41556-26-7	SKIN SENSITIZATION - Category 1B	
		TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1	
titanium dioxide	CAS: 13463-67-7		
nonylphenol ethoxylates	CAS: 68412-53-3	ACUTE TOXICITY (oral) - Category 4	
, , , , , , , , , , , , , , , , , , ,		ACUTE TOXICITY (dermal) - Category 4	
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Section 11. Toxicological information

Section 11. Toxicologica				
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 82919-37-7	SKIN SENSITIZATION - Category 1B		
		TOXIC TO REPRODUCTION - Category 2		
		AQUATIC HAZARD (ACUTE) - Category 1		
		AQUATIC HAZARD (LONG-TERM) - Category 1		
methyl alcohol	CAS: 67-56-1	FLAMMABLE LIQUIDS - Category 2		
		ACUTE TOXICITY (oral) - Category 3		
		ACUTE TOXICITY (dermal) - Category 3		
		ACUTE TOXICITY (inhalation) - Category 3		
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE		
		EXPOSURE) - Category 1		
		AQUATIC HÁZARD (LÓNG-TERM) - Category 3		

Section 12. Ecological information

A. <u>Ecotoxicity</u>

Product/ingredient name	Result	Species	Exposure
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	LC50 11.5 mg/l	Fish	96 hours
titanium dioxide methyl alcohol	Acute LC50 >100 mg/l Fresh water Acute LC50 13 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours

B. Persistence and degradability

Not available.

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
methyl alcohol	-0.77	-	Low

D. Mobility in soil

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

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

Section 13. Disposal considerations

A. Disposal methods

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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Section 13. Disposal considerations

- **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	Not regulated.	Not regulated.	Not regulated.	
B. UN proper shipping name	-	-	-	
C. Transport hazard class(es)	-	-	-	
D. Packing group	-	-	-	
Environmental hazards	No.	No.	No.	
E. Marine Not applicable. pollutant substances		Not applicable.	Not applicable.	

Additional information

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

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

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

A. Regulation according to 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.

	code 00289179 name PSX 700 BAS	EF	Date of issue 2/1/2024 (month/day/year) RAL 3002
Section	on 15. Regula	at	ory information
	• 2 of Youth Protection • Substances Hazardous •th	:	It is not allowed to sell to persons under the age of 19.
<u>Expo</u>	sure Limits of Chem	nica	al Substances and Physical Factors
titan	following components iium dioxide hyl alcohol	s h	ave an OEL:
Anne stand for h	ex 19 (Exposure dards established armful factors)	:	The following components are listed: methanol
Anne facto Envi	Enforcement Regs ex 21 (Harmful ors subject to Work ronment surement)	:	The following components are listed: titanium dioxide
Anne Facto	Enforcement Regs ex 22 (Harmful ors Subject to ial Health Check-	:	None of the components are listed.
Stan Safet Anne	dard of Industrial ty and Health ex 12 (Hazardous tances subject to rol)	:	The following components are listed: titanium dioxide
B. <u>Regu</u>	Ilation according to	<u>Ch</u>	emicals Control Act
Artic	le 11 (TRI)	:	None of the components are listed.
	le 18 Prohibited (K- h Article 27)	:	None of the components are listed.
autho	le 19 Subject to orization (K-Reach le 25)	:	None of the components are listed.
	le 20 Restricted (K- h Article 27)	:	The following components are listed: nonylphenol ethoxylates
Cher	le 20 Toxic nicals (K-Reach le 20)	:	Not applicable
Kore	a inventory	:	All components are listed or exempted.
	le 39 (Accident aution Chemicals)	:	The following components are listed: nonylphenol ethoxylates
C. Danc	erous Materials	1	Class: Class 4 - Flammable Liquid

- C. Dangerous Materiais Class: Class 4 - Flammable Liquid Safety Management Act Item: 5. Class 3 petroleums - Water-insoluble liquid Threshold: 2000 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.

Product name PSX 700 BASE RAL 3002

Section 15. Regulatory information

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	:	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.
В.	Date of issue/Date of revision	:	2/1/2024
C.	Version	:	6.01
	Prepared by	:	EHS
_			

D. Other

Indicates information that has changed from previously issued version.

<u>Disclaimer</u>

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.