SAFETY DATA SHEET



Date of issue 8/13/2024 (month/day/year)

Version 1.06

Section 1. Chemical product and company identification

A. Product name	: PSX 700 BASE WHITE 7000
Product code	: 00446145

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:	:	<mark>⊁</mark> 82-52-210-8331

Section 2. Hazards identification

A. Hazard classification : 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

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

0			
SI	/m	no	
<u> </u>			



Signal word	1	Warning
Hazard statements	:	H317 - May cause an allergic skin reaction. H351 - Suspected of causing cancer. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	 P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment. P261 - Avoid breathing vapor.

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Section 2. Hazards identification

Response	:	 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.
Storage	:	Not applicable.
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
C. Other hazards which do not result in	:	None known.

classification

Section 3. Composition/information on ingredients

CAS number/other identifiers

CAS number : Not applicable.

Chemical name % **Common name Identifiers** titanium dioxide TITANIUM DIOXIDE CAS: 13463-67-7 20 -<30 4,4'-Isopropylidenedicyclohexanol, CAS: 30583-72-3 20 cyclohexanol, 4,4'-(1-methylethylidene) oligomeric reaction products with bis-, polymer with (chloromethyl)oxirane <30 1-chloro-2,3-epoxypropane bis(1,2,2,6,6-pentamethyl-4-piperidyl) BIS(PENTAMETHYLPIPERIDYL) CAS: 41556-26-7 1 - <5 sebacate SEBACATE aluminium hydroxide ALUMINUM HYDROXIDE CAS: 21645-51-2 1 - <5 methyl 1,2,2,6,6-pentamethyl-4-piperidyl 0.1 - <1 METHYL-(1,2,2,6,6-PENTAMETHYL-CAS: 82919-37-7 4-PIPERDIYL) SEBACATE sebacate propylidynetrimethanol TRIMETHYLOLPROPANE CAS: 77-99-6 0.1 - <1 methyl alcohol METHYL ALCOHOL 0.1 - <1 CAS: 67-56-1

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.

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Section 4. First aid measures

E. Notes to physician	1	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	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	-	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media	:	None known.
в.	Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst. 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.

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 to Evacuate surrounding areas. Keep unnecessary and unprotected perso entering. Do not touch or walk through spilled material. Avoid breathing nist. Provide adequate ventilation. Wear appropriate respirator when v nadequate. Put on appropriate personal protective equipment.	nnel from vapor or
B. Environmental precautions	Avoid dispersal of spilled material and runoff and contact with soil, wate drains and sewers. Inform the relevant authorities if the product has car environmental pollution (sewers, waterways, soil or air). Water polluting May be harmful to the environment if released in large quantities.	used

C. Methods and materials for containment and cleaning up

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Section 6. Accidental release measures

Small spill	: Stop leak if without risk. Move containers from spill area. 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. 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). 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. 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 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

A. Occupational exposure limits

Ingredient name	Exposure limits
titanium dioxide	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
aluminium hydroxide	ACGIH TLV (United States, 7/2023).
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m ³ 8 hours. Form: Respirable
	fraction
	ACGIH TLV (United States).
	TWA: 1 mg/m ³
methyl alcohol	Ministry of Employment and Labor
	(Republic of Korea, 1/2020). Absorbed through skin.
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STEL: 250 ppm 15 minutes.

Section 8. Exposure controls/personal protection

				TWA: 200 ppm 8 hours.
Recomment monitoring			Reference should be made to appropria national guidance documents for metho substances will also be required.	
B. Appropriate controls	engineering		If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.	
Environmen exposure co				
C. Personal pro	otective equip	me	ent	
Respiratory	protection	:	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	known or anticipated exposure levels, the orking limits of the selected respirator. If a above the exposure limit, they must use a properly fitted, air-purifying or air-fed standard if a risk assessment indicates this is
Eye protecti	on	1	Safety glasses with side shields.	
Hand protec	tion	:	be worn at all times when handling che this is necessary. Considering the para check during use that the gloves are st should be noted that the time to breakt	ers. In the case of mixtures, consisting of
Gloves		:	butyl rubber	
Body protec	tion	:		body should be selected based on the task I and should be approved by a specialist
Hygiene mea	sures	:	Wash hands, forearms and face thorou eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should not	d to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety

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	:	Characteristic.
C .	Odor threshold	:	Not available.
D.	рН	:	Not applicable.
D.	рН	:	Not applicable.

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Section 9. Physical and chemical properties

: Not available.

- E. Melting/freezing point : Not available.
- F. Boiling point/boiling : >37.78°C (>100°F) range
- G. Flash point : Closed cup: Not applicable.
- H. Evaporation rate : Not available.
- I. Flammability (solid, gas) : Not available.
- J. Lower and upper explosive (flammable) limits

K. Vapor pressure	1	Vapor Pressure at 20°C		Vapor pressure at 50°C				
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Ī	aluminium hydroxide	<0.075	<0.01				
L. Solubility(ies)	: [Media	Media Result					
		cold water	No	t soluble	e			
Solubility in water	: 1	Not available.						
Vapor density M.	: 1	Not available.						
N. Relative density	: :	1.43						
O. Partition coefficient: n- octanol/water	:	Not applicable.						
P. Auto-ignition temperature	: 1	lot available.						
Q. Decomposition temperature	: 1	Not available.						
Viscosity R.	: 1	Kinematic (40°C (10	4°F)): >21	mm²/s	(>21 cSt)			
Flow time (ISO 2431)	: 1	Not available.	lot available.					
S. Molecular weight	: 1	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 halogenated compounds metal oxide/ oxides

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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
utanium 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	-
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	LD50 Oral	Rat	3.125 g/kg	-
aluminium hydroxide	LC50 Inhalation Dusts and mists	Rat	>5.09 mg/l	4 hours
	LD50 Oral	Rat	>5000 mg/kg	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
propylidynetrimethanol	LD50 Dermal LD50 Oral	Rabbit Rat	10 g/kg 14000 mg/kg	-
methyl alcohol	LC50 Inhalation Vapor LD50 Dermal	Rat Rabbit	64000 ppm 15800 mg/kg	4 hours -
	LD50 Oral	Rat	5600 mg/kg	-

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

Irritation/Corrosion

Conclusion/Summary	
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.

Sensitization

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

Mutagenicity

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Section 11. Toxicological information

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.

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
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
titanium dioxide	CAS: 13463-67-7	CARCINOGENICITY - Category 2
4,4'-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
aluminium hydroxide	CAS: 21645-51-2	Not classified.
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS: 82919-37-7	SKIN SENSITIZATION - Category 1B
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Section 11. Toxicological information

propylidynetrimethanol methyl alcohol	CAS: 77-99-6 CAS: 67-56-1	TOXIC TO REPRODUCTION - Category 2 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 TOXIC TO REPRODUCTION - Category 2 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 HAZARD (LONG-TERM) - Category 3
		AQUATIC HAZARD (LONG-TERM) - Category 3

Section 12. Ecological information

A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
Manium dioxide 4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	Acute LC50 >100 mg/l Fresh water LC50 11.5 mg/l	Daphnia - <i>Daphnia magna</i> Fish	48 hours 96 hours
propylidynetrimethanol methyl alcohol	Acute LC50 >1000 mg/l Acute LC50 13 mg/l Fresh water	Fish Fish	96 hours 96 hours

B. Persistence and degradability

Not available.

C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
propylidynetrimethanol	-0.47	-	Low
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. 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 pollutant substances	Not applicable.	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 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 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 Chemical Substances and Physical Factors

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Section 15. Regulatory information

	The following components have an OEL: Itanium dioxide aluminium hydroxide methyl alcohol		
	ISHA Enforcement Regs Annex 19 (Exposure standards established for harmful factors)	:	The following components are listed: methanol
	ISHA Enforcement Regs Annex 21 (Harmful factors subject to Work Environment Measurement)	:	The following components are listed: titanium dioxide, aluminum and its compounds
	ISHA Enforcement Regs Annex 22 (Harmful Factors Subject to Special Health Check- up)	:	The following components are listed: Aluminum and its compounds
	Standard of Industrial Safety and Health Annex 12 (Hazardous substances subject to control)	:	The following components are listed: titanium dioxide, aluminum and its compounds
В.	Regulation according to (Che	emicals Control Act
	Article 11 (TRI)	:	The following components are listed: Aluminium and its compounds
	Article 18 Prohibited (K- Reach Article 27)	1	None of the components are listed.
	Article 19 Subject to authorization (K-Reach Article 25)	:	None of the components are listed.
	Article 20 Restricted (K- Reach Article 27)	1	None of the components are listed.
	Article 20 Toxic Chemicals (K-Reach Article 20)	:	Not applicable
	Korea inventory	1	All components are listed or exempted.
	Article 39 (Accident Precaution Chemicals)	1	None of the components are listed.
C.	Dangerous Materials Safety Management Act	:	Not applicable.
D.	Wastes regulation	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Ε.	Regulation according to o	<u>oth</u>	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	 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.	First issue date	: 7/6/2021
C.	Date of issue/Date of revision	: 8/13/2024
D.	Version	: 1.06
	Prepared by	: EHS

E. Other

V 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.