SAFETY DATA SHEET

PSX 700 BASE WH-1



Date of issue 19 December 2023

Version 1

1. Product and company identification

Product name	: PSX 700 BASE WH-1
Product code	: 00475286
Product type	: Liquid.

Relevant identified uses of the	ne substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Not applicable.
Supplier's details	: PPG PMC Japan Co., Ltd., 8F, Shintetsu Bldg., 1-1, Daikaidori 1-chome, Kobe 652-0803 Japan; Tel: +81-78-574-2777
Emergency telephone number	: 078 574 2777

2. Hazards identification		
GHS Classification	: SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HAZARDOUS TO THE AQUATIC ENVIRONMENT - ACUTE HAZARD - Category 3 HAZARDOUS TO THE AQUATIC ENVIRONMENT - CHRONIC HAZARD - Category 3	
GHS label elements		
Hazard pictograms		
Signal word	: Danger	
Hazard statements	 May cause an allergic skin reaction. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (respiratory organs) Harmful to aquatic life with long lasting effects. 	
Precautionary statements		
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.	

Product code 00475286 Product name PSX 700 BASI	Date of issue 19 December 2023 Version 1 E WH-1
2. Hazards identif	ication
Response	: IF exposed or concerned: Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	: None known.

3. Composition/information on ingredients

Substance/mixture

: Mixture

CAS number/other identifiers

CAS number	1	Not applicable.
CSCL number	1	Not available.

Ingredient name	%	CAS number	CSCL
titanium dioxide (excluding nanoparticle)	25 - <50	13463-67-7	1-558; 5-5225
4,4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25 - <50	30583-72-3	7-1282
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	1 - <2	41556-26-7	5-5501
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	0.2 - <0.5	82919-37-7	5-5593
Silica silicon dioxide containing crystalline and amorphous	0.2 - <0.5	7631-86-9	1-548
Zirconium oxide	0.1 - <0.2	1314-23-4	1-563
propylidynetrimethanol	0.1 - <0.2	77-99-6	2-245
Methanol	0.1 - <0.2	67-56-1	2-201

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.

SUB codes represent substances without registered CAS Numbers.

4. First aid measures

Description of necessary first aid measures

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.
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.
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.
Ingestion	 If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.

Most imp	ortant sy	mptoms/	effects,	acute	and	delaye	эd

Potential acute health effects

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

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4. First aid measures

Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	<u>otoms</u>
Eye contact	: No specific data.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures		
Extinguishing media		
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: None known.	
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	
Special protective actions for fire-fighters	: 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.	
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.	

6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	: 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.
Methods and materials for co	ontainment and cleaning up
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.

7. Handling and storage

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 vapor or mist. Do not ingest. 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.
Conditions for safe storage :	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.

8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits		
Methanol		Japan Society for Occupational Health (Japan, 9/2022). Absorbed through skin. OEL-M: 260 mg/m ³ 8 hours. OEL-M: 200 ppm 8 hours. Industrial Safety and Health Act (Japan, 6/2020). TWA: 200 ppm 8 hours.		
Recommended monitoring procedures	: Reference should be made to appropri national guidance documents for meth substances will also be required.	ate monitoring standards. Reference to ods for the determination of hazardous		
Appropriate engineering controls		s, gas, vapor or mist, use process enclosures, eering controls to keep worker exposure to mmended or statutory limits.		
Environmental exposure controls	they comply with the requirements of e	cess equipment should be checked to ensure environmental protection legislation. In some eering modifications to the process equipment to acceptable levels.		
Individual protection measu	res			
Hygiene measures	eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no	d to remove potentially contaminated clothing. t be allowed out of the workplace. Wash Ensure that eyewash stations and safety		
Eye protection	: Safety glasses with side shields.			
Skin protection				
Hand protection	be worn at all times when handling che this is necessary. Considering the par 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 protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory protection	hazards of the product and the safe wo workers are exposed to concentrations appropriate, certified respirators. Use	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 standard if a risk assessment indicates this is		

9. Physical and chemical properties

<u>Appearance</u>						
Physical state	: Liquid.					
Odor	: Characteristic.					
Boiling point	: >37.78°C (>100°F)					
Flash point	: Closed cup: Not ap	olicable.				
Relative density	: 1.44					
Solubility(ies)	Media	Result				
Solubility(les)	. cold water					

10. Stability and r	eactivity
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds metal oxide/ oxides

11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result	Species	Dose	Exposure
titanium dioxide (excluding nanoparticle)	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	-
methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	LD50 Oral	Rat	3.125 g/kg	-
Silica silicon dioxide containing crystalline and amorphous	LD50 Dermal	Rabbit	>5000 mg/kg	-
·	LD50 Oral	Rat - Male, Female	>5000 mg/kg	-
propylidynetrimethanol	LD50 Dermal	Rabbit	10 g/kg	-
	LD50 Oral	Rat	14000 mg/kg	-
Methanol	LC50 Inhalation Vapor	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-

11. Toxicological information

LD50 Oral	Rat	5600 mg/kg	-

Irritation/Corrosion Not available.

Sensitization Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Silica silicon dioxide containing crystalline and amorphous	Category 3	-	Respiratory tract irritation
Methanol	Category 1	-	central nervous system (CNS), systemic toxicity, visual organ
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
titanium dioxide (excluding nanoparticle)	Category 1	-	respiratory organs
Silica silicon dioxide containing crystalline and amorphous	Category 1	-	immune system, kidneys, respiratory organs
Methanol	Category 1	-	central nervous system (CNS), visual organ

Aspiration hazard

Not available.

Information on the likely routes of exposure	: Not available.
Potential acute health effe	ects
Eye contact	: No known significant effects or critical hazards.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

: No specific data.

Product Halle P3X 700 BASE		
11. Toxicological	in	formation
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
Delayed and immediate effect	<u>:ts</u>	and also chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Potential chronic health eff	ect	<u>'S</u>
General	:	Causes damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	:	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Reproductive toxicity	1	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
PSX 700 BASE WH-1	74778.1	N/A	N/A	N/A	N/A
	3125	N/A	N/A	N/A	N/A
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	3125	N/A	N/A	N/A	N/A
methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		N/A	N/A	N/A	N/A
propylidynetrimethanol	14000	10000	N/A	N/A	N/A
Methanol	500	15800	64000	N/A	N/A

Other information

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

12. Ecological information

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Toxicity

Product/ingredient name	Result	Species	Exposure
titanium dioxide (excluding nanoparticle)	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane	LC50 11.5 mg/l	Fish	96 hours
Silica silicon dioxide	Acute EC50 2.2 g/L Fresh water	Daphnia - <i>Daphnia magna</i> -	48 hours
		Japan	Page: 8/12

12. Ecological information

containing crystalline and amorphous		Neonate	
	Acute LC50 >10000 mg/l Chronic NOEC 12.5 mg/l Fresh water	Fish Daphnia - <i>Daphnia magna -</i> Neonate	96 hours 21 days
propylidynetrimethanol Methanol	Acute LC50 >1000 mg/l Acute LC50 13 mg/l Fresh water	Fish Fish	96 hours 96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Mathanal	-0.47 -0.77	-	Low Low

	Nobi	lity	in	soil
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Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

Mobility

Other adverse effects

: No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. 2 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. 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.

	UN	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
1		1	Japan Page: 9/1

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14. Tran	sport	information		
Marine pollus substances	tant	Not applicable.	Not applicable.	Not applicable.
Additional inf	formation	1		
UN	: No	one identified.		
IMDG	: No	one identified.		
	• NL	one identified.		

Transport in bulk according : Not applicable. to IMO instruments

15. Regulatory information

Fire Service Law

None of the components are listed.

Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

Industrial Safety and Health Act

Ordinance on the Prevention of the Hazard due to Specified Chemical Substances

None of the components are listed.

Substance(s) requiring labelling

Ingredient name	%		Reference number
	≥20 - ≤30	Listed	191
	≤10	Listed	165-2

Chemicals requiring notification

Ingredient name	%		Reference number
Titanium(IV) oxide	≥20 - ≤30	Listed	191
Crystalline silica	≤10	Listed	165-2
Methanol	≤10	Listed	560

Carcinogens based on Article 577-2 of the Ordinance on ISH

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid

: Not listed

Occupational Safety and Health Law

: Inflammable, Combustible

15. Regulatory information

Regulations on the Prevention of Tetraalkyl Lead Poisoning	:	Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	:	Not listed
Harmful Substances, Prohibited for Manufacturing	:	Not listed
ISHL Enforcement Order Appendix 1 - Dangerous Substances	:	Inflammable, Combustible
Lead regulation	:	Not listed
Organic solvents poisoning prevention	:	Not applicable.

Poisonous and Deleterious Substances

None of the components are listed.

Chemical Substances Control Law (CSCL)

Ingredient name	%	Status	Reference number
Xylene 2,2,4,4,6,6,8,8-Octamethyl-	≤10 ≤10	Priority assessment Monitoring	125 40
1,3,5,7,2,4,6,8-tetraoxatetrasilocane 2,2,4,4,6,6,8,8,10,10,12,12-Dodecamethyl- 1,3,5,7,9,11-hexaoxa-2,4,6,8,10,12-hexasilacyclododecane	≤10	Monitoring	41
Ethylbenzene	≤10	Priority assessment	50

High Pressure Gas Control : Not available. Law

Explosives Control Law

None of the components are listed.

Law concerning prevention : Not available. of pollution of the ocean

Maritime Safety Law

Notification Regulating Transportation of Dangerous Materials by Sea None of the components are listed.

Container class

None of the components are listed.

JSOH Carcinogen	: Not listed
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

16. Other information

: 19 December 2023
: No previous validation
: 1
: EHS
 ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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.