SAFETY DATA SHEET

PSX 700 WHITE RESIN



Date of issue 18 February 2020

Version 11.01

1. Product and company identification

Product name	: PSX 700 WHITE RESIN
Product code	: PX7003
Product type	: Liquid.

Relevant identified uses of the substance or mixture and uses advised against				
Product use	: Industrial 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 Tel : +81 78 574 2777 Fax : +81 78 576 0035			
Emergency telephone number	: 078 574 2777			

2. Hazards identification			
GHS Classification	: SKIN SENSITIZATION - Catego CARCINOGENICITY - Catego		

GHS Classification	: SKIN SENSITIZATION - Category 1
	CARCINOGENICITY - Category 1A
	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (respiratory
	system) - Category 1
	AQUATIC HAZARD (ACUTE) - Category 3
	AQUATIC HAZARD (LONG-TERM) - 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 system) 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. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
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Response	:	Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical 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	: Not applicable.
ENCS number	: Not available.

Ingredient name	%	CAS number	ENCS
titanium dioxide (nanoparticle) 4,4'-lsopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	25 - <50 25 - <50	13463-67-7 30583-72-3	1-558 Not available.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate Silica (silicon dioxide containing crystalline and amorphous)	1 - <2 0.2 - <0.5 0.2 - <0.5	41556-26-7 82919-37-7 7631-86-9	5-5501 5-5593 1-548
Zirconium oxide	0.1 - <0.2	1314-23-4	1-563

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 necessa	ary 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 important sympto	oms/effects, acute and delayed
Potential acute health	<u>effects</u>

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.

4. First aid measures

tom	<u>IS</u>		
:	No specific data.		
:	No specific data.		
:	Adverse symptoms may include the following: irritation redness		
:	No specific data.		
Indication of immediate medical attention and special treatment needed, if necessary			
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.		
:	No specific treatment.		
:	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.		
	: : : i <u>cal</u> :		

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, protective 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
	inadequate. Put on appropriate personal protective equipment.

6. Accidental release measures

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".
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.
Methods and materials for co	ntainment 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). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 : Do not store above the following temperature: 50°C (122°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

<u>Control parameters</u> <u>Occupational exposure limits</u>

8. Exposure controls/personal protection

Ingredient name		Exposure limits		
titanium dioxide (nanoparticle)	Japan Society for Occupational Health (Japan, 5/2018). OEL-M: 1 mg/m ³ 8 hours. Form: Respirable dust OEL-M: 4 mg/m ³ 8 hours. Form: Total dust OEL-M: 0.3 mg/m ³ , (as Ti) 8 hours. Form: nanoparticle		
Recommended monitoring procedures	: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standars Reference to national guidance documents for methods for the determination of hazardous substances will also be required.			
Appropriate engineering controls		s, gas, vapor or mist, use process enclosures, leering controls to keep worker exposure to mmended or statutory limits.		
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
ndividual protection measur	<u>es</u>			
Hygiene measures	eating, smoking and using the lavatory Appropriate techniques should be used Contaminated work clothing should no	d to remove potentially contaminated clothing. It 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 para check during use that the gloves are st should be noted that the time to break for different glove manufacturers. In th	complying with an approved standard should emical products if a risk assessment indicates ameters specified by the glove manufacturer, till retaining their protective properties. It through for any glove material may be different ne case of mixtures, consisting of several gloves cannot be accurately estimated.		
Gloves	: butyl rubber			
Body protection		body should be selected based on the task and should be approved by a specialist		
Other skin protection		al skin protection measures should be selected d the risks involved and should be approved by ct.		
Respiratory protection	hazards of the product and the safe we workers are exposed to concentrations appropriate, certified respirators. Use	a 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		

9. Physical and chemical properties

Appearance	
Physical state	: Liquid.
Color	: White.
Odor	: Characteristic.
Boiling point	: >37.78°C (>100°F)
Flash point	: Closed cup: 97.22°C (207°F)
Evaporation rate	: 0.7 (butyl acetate = 1)
Vapor pressure	:1.6 kPa (12 mm Hg) [room temperature]
Relative density	: 1.46
Solubility	: Insoluble in the following materials: cold water.
Viscosity	: Not Applicable

10. Stability and reactivity

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	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
iii/anium dioxide (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	-

Irritation/Corrosion

11. Toxicological information

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		Route of exposure	Target organs
Silica (silicon dioxide containing crystalline and amorphous)	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
titanium dioxide (nanoparticle) Silica (silicon dioxide containing crystalline and amorphous)	0,	Not determined	respiratory system immune system, kidneys and respiratory system

Aspiration hazard

Not available.

Information on the likely routes of exposure	: Not available.
Potential acute health eff	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.
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
Delayed and immediate ef	fects and also chronic effects from short and long term exposure
Short term exposure	
Potential immediate effects	: Not available.
	Japan

11. Toxicological information

Potential delayed effects	4	Not available.
<u>Long term exposure</u>		
Potential immediate effects	1	Not available.
Potential delayed effects	1	Not available.
Potential chronic health effe	ect	<u>5</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	1	May cause cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	No known significant effects or critical hazards.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	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)
SX 700 WHITE RESIN	79815	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	3125	N/A	N/A	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. Emits toxic fumes when heated.

12. Ecological information

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Product/ingredient name	Result	Species	Exposure
titanium dioxide (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 containing crystalline and amorphous)	Acute LC50 >10000 mg/l	Fish	96 hours

Persistence/degradability

Not available.

Bioaccumulative potential

Not available.

12. Ecological information

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.
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. 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.

14. Transport information

	UN	IMDG	ΙΑΤΑ
UN number	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-
Transport hazard class(es)	-	-	-
Packing group	-	-	-
Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

Additional information

UN	: None identified.
IMDG	: None identified.
	NI 11 (161)

IATA : None identified.

Special precautions for user

: **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.

15. Regulatory information

Fire Service Law

Category	Substance name/Type	Danger category	Signal word	Designated quantity
Specified flammables	Combustible liquid	Not applicable	Not applicable	2 m³

Pollutant Release and Transfer Registers (PRTR)

None of the components are listed.

<u>ISHL</u>

Use of specified chemical substances

None of the components are listed.

Label requirements

Ingredient name	%		Reference number
Titanium(IV) oxide	≥25 - ≤50	Listed	191
Crystalline silica	<1.0	Listed	165-2

Chemicals requiring notification

Ingredient name	%		Reference number
Titanium(IV) oxide	≥25 - ≤50	Listed	191
Crystalline silica	<1.0	Listed	165-2

Carcinogen

None of the components are listed.

<u>Mutagen</u>

None of the components are listed.

Corrosive liquid	:	Not listed
Occupational Safety and Health Law	:	Not available.
Prevention of Tetraalkyl Lead Poisoning	:	Not listed
Harmful Substances Subject to Obtaining Permission for Manufacturing	:	Not listed
Harmful Substances, Prohibited for Manufacturing	:	Not listed
Dangerous Substances	:	Not listed
Lead regulation	:	Not listed
Organic solvents poisoning prevention	:	Not available.

Poisonous and Deleterious Substances None of the components are listed.

Chemical Substances Control Law (CSCL)

15. Regulatory information

None of the components are listed.

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 and Maritime Disaster

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	: Group 2B
List of Specially Controlled Industrial Waste	: Not listed
Japan inventory	: All components are listed or exempted.
Road law	: Not available.

16. Other information

<u>History</u>	
Date of issue/Date of revision	: 18 February 2020
Date of previous issue	: 12/7/2019
Version	: 11.01
Prepared by	: EHS
Key to abbreviations	 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

Product name PSX 700 WHITE RESIN

16. Other information

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.