SAFETY DATA SHEET



Date of issue/Date of revision22 August 2016Version 5

Section 1. Identification			
Product name	: PSX 700 AMARILLO OCRE 202 RESIN		
Product code	: PX700817		
Other means of identification	: Not available.		
Product type	: Liquid.		
Relevant identified uses of	of the substance or mixture and uses advised against		
Product use	: Industrial applications.		
Use of the substance/ mixture	: Coating. Paints. Painting-related materials.		
Uses advised against	: Not applicable.		
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272		
Emergency telephone number	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) 01-800-00-21-400 (Mexico)		

Technical Phone Number : 888-977-4762

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	 KIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 80.6%
GHS label elements Hazard pictograms	
Signal word	: Warning

Product name PSX 700 AMARILLO OCRE 202 RESIN

Section 2. Hazards identification

Hazard statements	 Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer.
Precautionary statements	
Prevention	: Øbtain 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 breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: F exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	 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.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture	1	Mixture
Product name	1	PSX 700 AMARILLO OCRE 202 RESIN

Ingredient name	%	CAS number
[,,, · · · · · · · · · · · · · · · · · ·	≥20 - ≤50	30583-72-3
1-chloro-2,3-epoxypropane		
titanium dioxide	≥5.0 - ≤10	13463-67-7
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	≥1.0 - ≤5.0	41556-26-7

SUB codes represent substances without registered CAS Numbers.

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

If ingestion, irritation, any type of overexposure or symptoms of overexposure occur during or persists after use of this product, contact a POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN immediately; have Safety Data Sheet information available. Never give anything by mouth to an unconscious or convulsing person. 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 important symptoms/effects, acute and delayed

most important symptoms/c		
Potential acute health effe		
Eye contact	: 🔽 auses serious eye irritation.	
Inhalation	No known significant effects or critical hazards.	
Skin contact	: 🔽auses skin irritation. May cause an allergic skin reaction.	
Ingestion	No known significant effects or critical hazards.	
Over-exposure signs/symp	<u>ms</u>	
Eye contact	Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	No specific data.	
Skin contact	Adverse symptoms may include the following: irritation redness	
Ingestion	No specific data.	
Indication of immediate mee	al attention and special treatment needed, if necessary	
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delaye 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. It is be dangerous to the person providing aid to give mouth-to-mouth resuscitation. W contaminated clothing thoroughly with water before removing it, or wear gloves.	

See toxicological information (Section 11)

Section 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 toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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.

Section 6. Accidental release measures

disposal contractor.

Personal precautions, protec	<u>tiv</u>	e 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".
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).
Methods and materials for co	nt	ainment 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

Product name PSX 700 AMARILLO OCRE 202 RESIN

Section 6. Accidental release measures

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

Precautions for safe handling

Protective measures	: 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. 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.
Advice on general occupational hygiene	: 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. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	: 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. 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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits	
4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane titanium dioxide	None. OSHA PEL (United States, 2/2013). TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2015).	
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	TWA: 10 mg/m³ 8 hours. None.	
A = Acceptable Maximum Peak	S = Potential skin absorption	

United States

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Section 8. Exposure controls/personal protection

	-			
ACGIH	= American Conference of G	overnmental Industrial Hygienists.	SR	 Respiratory sensitization
С	 Ceiling Limit 		SS	 Skin sensitization
F	= Fume		STEL	 Short term Exposure limit values
IPEL	 Internal Permissible Expos 	ure Limit	TD	= Total dust
OSHA	 Occupational Safety and H 	lealth Administration.	TLV	= Threshold Limit Value
R	= Respirable		TWA	 Time Weighted Average
Z	= OSHA 29 CFR 1910.1200	Subpart Z - Toxic and Hazardous Substances		
Consult	local authorities for a	ceptable exposure limits.		
Recon proced		the ventilation or other control measure	ay be re es and/c uld be m ients for	equired to determine the effectiveness of or the necessity to use respiratory ade to appropriate monitoring standards.
Approp controls	· · · ·	 If user operations generate dust, fume local exhaust ventilation or other engin airborne contaminants below any record 	eering o	controls to keep worker exposure to
Environ controls	imental exposure S	Emissions from ventilation or work pro they comply with the requirements of e	cess eq nvironm eering r	uipment should be checked to ensure nental protection legislation. In some nodifications to the process equipment

Individual protection measures

Hygiene measures Eye/face protection	 Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. Chemical splash goggles.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
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	: Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

Section 9. Physical and chemical properties

Appearance

Physical state	:	Liquid.
Color	1	Not available.
Odor	1	Not available.
Odor threshold	:	Not available.
рН	1	Not available.
Melting point	1	Not available.
Boiling point	1	>37.78°C (>100°F)
Flash point	1	Closed cup: 97.22°C (207°F)
Auto-ignition temperature	1	Not available.
Decomposition temperature	1	Not available.
Flammability (solid, gas)	1	Not available.
Lower and upper explosive	1	Lower: 1.5%
(flammable) limits		
Evaporation rate	1	0.69 (butyl acetate = 1)
Vapor pressure	1	1.5 kPa (11.4 mm Hg) [room temperature]
Vapor density	1	Not available.
Relative density	1	1.24
Density(lbs / gal)	1	10.35
Solubility	:	Insoluble in the following materials: cold water.
Partition coefficient: n-	:	Not available.
octanol/water		
Viscosity	1	Kinematic (40°C (104°F)): >0.21 cm²/s (>21 cSt)
Volatility	1	0% (v/v), 0.2% (w/w)
% Solid. (w/w)	1	99.8

Section 10. Stability and reactivity

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Hazardous decomposition products	: Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.
Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Chemical stability	: The product is stable.
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result		Species	Dose	Exposure
titanium dioxide	LD50 Oral		Rat	>11 g/kg	-
bis(1,2,2,6,6-pentamethyl-	LD50 Oral		Rat	3.125 g/kg	-
4-piperidyl) sebacate					
Conclusion/Summary	: There are	e no data a	available on the mixture i	tself.	
rritation/Corrosion					
Conclusion/Summary					
Skin	: There are	e no data a	available on the mixture i	tself.	
Eyes	: There are	e no data a	available on the mixture i	tself.	
Respiratory	: There are	e no data a	available on the mixture i	tself.	
<u>Sensitization</u>					
Conclusion/Summary					
Skin	: There are	e no data a	available on the mixture i	tself.	
Respiratory	: There are	e no data a	available on the mixture i	tself.	
<u>Mutagenicity</u>					
Conclusion/Summary	: There are	e no data a	available on the mixture i	tself.	
Carcinogenicity					
Conclusion/Summary	: There are	e no data a	available on the mixture i	tself.	
Classification					
Product/ingredient name	OSHA	IARC	NTP		
titanium dioxide	-	2B	-		
Carcinogen Classificatio	n code:	I	1		
IARC: 1, 2A, 2B, 3	. 4				

OSHA: +

Not listed/not regulated: -

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)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Target organs

: Contains material which causes damage to the following organs: upper respiratory tract, skin, eyes.

Aspiration hazard

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Product name PSX 700 AMARILLO OCRE 202 RESIN

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure

Potential acute health effects Eye contact Causes serious eye irritation. Inhelation No known similiaant effects of the series of the serie

Eye contact		causes senous eye initation.
Inhalation	1	No known significant effects or critical hazards.
Skin contact	1	Zauses skin irritation. May cause an allergic skin reaction.
Ingestion	1	No known significant effects or critical hazards.
<u>Over-exposure signs/symp</u>	ton	<u>15</u>
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	1	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	1	No specific data.
Delayed and immediate effect	ts	and also chronic effects from short and long term exposure
Conclusion/Summary	:	There are no data available on the mixture itself. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. If splashed in the eyes, the liquid may cause irritation and reversible damage. Ingestion may cause nausea, diarrhea and vomiting. This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.
<u>Short term exposure</u>		
Potential immediate effects	:	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Long term exposure		
Potential immediate effects	;	There are no data available on the mixture itself.
Potential delayed effects	:	There are no data available on the mixture itself.
Potential chronic health effe	cts	
General	:	Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	1	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	1	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 toxic	ity	
Acute toxicity estimates		

Product name PSX 700 AMARILLO OCRE 202 RESIN

Section 11. Toxicological information

Route	ATE value
Oral	35143.1 mg/kg

Section 12. Ecological information

<u>Toxicity</u>

Product/ingredient name	Result	Species	Exposure
titanium dioxide	Acute LC50 >100 mg/l Fresh water	Daphnia - Daphnia magna	48 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 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.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees. Section 6. Accidental release measures

Product name PSX 700 AMARILLO OCRE 202 RESIN

14. Transport information

	DOT	INDC	1070
	DOT	IMDG	IATA
UN number	Not regulated.	UN3082	UN3082
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, bis(1,2,2,6, 6-pentamethyl-4-piperidyl) sebacate)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. 4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, bis(1,2,2,6, 6-pentamethyl-4-piperidyl) sebacate)
Transport hazard class (es)	-	9	9
Packing group	-	Ш	Ш
Environmental hazards	No.	Yes.	Yes.
Marine pollutant substances	Not applicable.	4,4'- Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2, 3-epoxypropane, bis(1,2,2,6, 6-pentamethyl-4-piperidyl) sebacate)	Not applicable.

Additional information

DOT

: None identified.

IMDG	: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg,
	provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.

IATA : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

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.

Section 15. Regulatory information

2

United States

United States inventory (TSCA 8b) : All components are listed or exempted.

U.S. Federal regulations

SARA 302/304

SARA 304 RQ : Not applicable.

Composition/information on ingredients

Product name PSX 700 AMARILLO OCRE 202 RESIN

Section 15. Regulatory information

No products were found.

SARA 311/312

Classification

: Immediate (acute) health hazard Delayed (chronic) health hazard

Composition/information on ingredients

Name	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
4'-Isopropylidenedicyclohexanol, oligomeric reaction products with 1-chloro-2,3-epoxypropane	No.	No.	No.	Yes.	No.
titanium dioxide	No.	No.	No.	No.	Yes.
bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	No.	No.	No.	Yes.	No.

Additional environmental information is contained on the Environmental Data Sheet for this product, which can be obtained from your PPG representative.

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health : Flammability : 1 Physical hazards : 2 1 (*) - Chronic effects

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.)

Health : 2 Flammal Date of previous issue	bility: 1 Instability: 1 : 4/25/2016
Organization that prepared the MSDS	: EHS
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container 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) UN = United Nations

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Section 16. Other information

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.