## **SAFETY DATA SHEET**



Date of issue/Date of revision 31 May 2024 Version 15

Section 1. Identification		
Product name	: PSX 892 HS ALUMINUM RESIN	
Product code	: 00281500	
Other means of identification	: Not available.	
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.	
Manufacturer	: PPG Industries, Inc. One PPG Place Pittsburgh, PA 15272	
<u>Emergency telephone</u> <u>number</u>	: (412) 434-4515 (U.S.) (514) 645-1320 (Canada) SETIQ Interior de la República: 800-00-214-00 (México) SETIQ Ciudad de México: (55) 5559-1588 (México)	
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	<ul> <li>FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1</li> </ul>
	Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 36.7% (oral), 79.5% (dermal), 68.3% (inhalation)
GHS label elements	
Hazard pictograms	
Signal word	: Danger
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## Section 2. Hazards identification

Hazard statements	<ul> <li>Flammable liquid and vapor. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. (central nervous</li> </ul>
	system (CNS))
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. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Keep container tightly closed. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	: IF exposed or concerned: Get medical advice or attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 advice or attention.
Storage	: Store locked up. Store in a well-ventilated place. Keep cool.
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. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Avoid contact with skin and clothing. Wash thoroughly after handling. Emits toxic fumes when heated. DANGER - RAGS, STEEL WOOL OR WASTE SOAKED WITH THIS PRODUCT MAY SPONTANEOUSLY CATCH FIRE IF IMPROPERLY DISCARDED. IMMEDIATELY AFTER EACH USE, PLACE RAGS, STEEL WOOL OR WASTE IN A SEALED WATER-FILLED METAL CONTAINER.
Hazards not otherwise classified	: Prolonged or repeated contact may dry skin and cause irritation.

## Section 3. Composition/information on ingredients

Substance/mixture Product name

- : Mixture
- : PSX 892 HS ALUMINUM RESIN

holding the eyelids

Product name PSX 892 HS ALUMINUM RESIN

## Section 3. Composition/information on ingredients

Ingredient name	%	CAS number
Auminium powder (stabilized)	≥10 - ≤20	7429-90-5
Stoddard solvent	≥10 - ≤20	8052-41-3
Silicic acid, ethyl ester	≥1.0 - ≤5.0	11099-06-2
N-(3-(trimethoxysilyl)propyl)ethylenediamine	≥1.0 - <3.0	1760-24-3
Solvent naphtha (petroleum), light aliph.	≥1.0 - ≤4.0	64742-89-8
n-butyl acetate	≥1.0 - ≤5.0	123-86-4
tetraethyl silicate	≥1.0 - ≤5.0	78-10-4
dibutyltin dilaurate	<1.0	77-58-7
2-butanone oxime	<1.0	96-29-7

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,
	an art far at least 10 minutes and east immediate modiael advise

	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	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	<ul> <li>If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do NOT induce vomiting.</li> </ul>

Most important symptoms/effects, acute and delayed

Potential acute health effects Eye contact : Causes serious eye irritation. No known significant effects or critical hazards. Inhalation 5 **Skin contact** : Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction. Ingestion : No known significant effects or critical hazards. Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain or irritation watering redness

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#### Section 4. First aid measures

Inhal	ation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact		: Adverse symptoms may include the following: irritation redness dryness
Inges	stion	cracking reduced fetal weight increase in fetal deaths skeletal malformations : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Indicati	ion of immediate med	lical 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.
Specif	fic treatments	: No specific treatment.
Protec	ction 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

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)

## Section 5. Fire-fighting measures

: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
: Do not use water jet.
: Mammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.

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## Section 5. Fire-fighting measures

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.	
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

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
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	entainment and cleaning up	
Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.	
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

## Section 7. Handling and storage

# Precautions for safe handling Protective measures : Fut 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. Avoid exposure during pregnancy. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an

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## Section 7. Handling and storage

	approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Special precautions	: Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Vapors are heavier than air and may spread along floors. Materials such as cleaning rags, paper wipes and protective clothing, which are contaminated with the product may spontaneously self-ignite some hours later. To avoid the risks of fires, all contaminated materials should be stored in purpose-built containers or in metal containers with tight-fitting, self-closing lids. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside. If this material is part of a multiple component system, read the Safety Data Sheet(s) for the other component or components before blending as the resulting mixture may have the hazards of all of its parts.
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	: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## Section 8. Exposure controls/personal protection

#### Control parameters

#### **Occupational exposure limits**

Ingredient name	Exposure limits
aluminium powder (stabilised)	ACGIH TLV (United States, 7/2023).
	[Aluminum, metal and insoluble
	compounds]
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: Respirable
	fraction
	OSHA PEL (United States, 5/2018).
	TWA: 5 mg/m <sup>3</sup> , (as Al) 8 hours. Form:
	Respirable fraction
	TWA: 15 mg/m <sup>3</sup> , (as AI) 8 hours. Form: Total
	dust
Stoddard solvent	ACGIH TLV (United States, 7/2023).
	TWA: 525 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 2900 mg/m <sup>3</sup> 8 hours.
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#### Section 8. Exposure controls/personal protection

	TWA: 500 ppm 8 hours.			
Silicic acid, ethyl ester	None.			
N-(3-(trimethoxysilyl)propyl)ethylenediamine	None.			
Solvent naphtha (petroleum), light aliph.	None.			
n-butyl acetate	OSHA PEL (United States, 5/2018).			
	TWA: 710 mg/m <sup>3</sup> 8 hours.			
	TWA: 150 ppm 8 hours.			
	ACGIH TLV (United States, 7/2023). [Butyl			
	acetates]			
	STEL: 150 ppm 15 minutes.			
	TWA: 50 ppm 8 hours.			
tetraethyl silicate	ACGIH TLV (United States, 7/2023).			
	TWA: $85 \text{ mg/m}^3 8 \text{ hours.}$			
	TWA: 00 mg/m o hours. TWA: 10 ppm 8 hours.			
	OSHA PEL (United States, 5/2018).			
	TWA: 850 mg/m <sup>3</sup> 8 hours.			
	TWA: 850 mg/m 8 hours.			
dibutyltin dilaurate	ACGIH TLV (United States, 7/2023). [Tin,			
	organic compounds] Absorbed through			
	skin.			
	STEL: 0.2 mg/m³, (as Sn) 15 minutes.			
	TWA: 0.1 mg/m³, (as Sn) 8 hours.			
	OSHA PEL (United States, 5/2018). [Tin,			
	organic compounds]			
	TWA: 0.1 mg/m³, (as Sn) 8 hours.			
	OSHA PEL (United States).			
	TWA: 0.1 mg/m³, (as Sn)			
2-butanone oxime	IPEL (-).			
	TWA: 3 ppm			
	STEL: 9 ppm			
Key to abbreviations				
A = Acceptable Maximum Peak	S = Potential skin absorption			
ACGIH = American Conference of Governmental Industrial Hygienists.	SR = Respiratory sensitization			
C = Ceiling Limit	SS = Skin sensitization			
F = Fume	STEL = Short term Exposure limit values			
IPEL = Internal Permissible Exposure Limit	TD = Total dust			
OSHA = Occupational Safety and Health Administration.	TLV = Threshold Limit Value			

R = Respirable

= OSHA 29 CFR 1910.1200 Subpart Z - Toxic and Hazardous Substances Ζ

Consult local authorities for acceptable exposure limits.

procedures

**Recommended monitoring** : Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

TWA

= Time Weighted Average

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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## Section 8. Exposure controls/personal protection

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.
Individual protection measur	res	
Hygiene measures	-	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.
Eye/face protection	:	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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
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. The respiratory protection shall be in accordance to 29 CFR 1910.134.

## Section 9. Physical and chemical properties

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Auto-ignition temperature	: Not available.		
Flash point	: Closed cup: 32.78°C (91°F)		
Boiling point	: >37.78°C (>100°F)		
Melting point	: Not available.		
рН	: Not applicable.		
Odor threshold	: Not available.		
Odor	: Characteristic.		
Color	: Not available.		
Physical state	: Liquid.		
<u>Appearance</u>			

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## Section 9. Physical and chemical properties

Decomposition temperature	: N	lot available.			
Flammability	: N	lot available.			
Lower and upper explosive (flammable) limits	: N	lot available.			
Evaporation rate	: 0	0.89 (butyl acetate = 1)			
Vapor pressure	: 1	.7 kPa (12.8 mm Hg	)		
Vapor density	: N	lot available.			
Relative density	: 1	.19			
Density(lbs / gal)	: 9	.93			
	N	ledia	Result		
Solubility(ies)	:	old water	Not soluble		
Partition coefficient: n- octanol/water	: N	lot applicable.			
Viscosity	: K	inematic (40°C (104	l°F)): >21 mm²/s (>21 cSt)		
Volatility	: 3	6% (v/v), 23.99% (w	//w)		
% Solid. (w/w)	: 7	6.01			

## Section 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. Refer to protective measures listed in sections 7 and 8.
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 Formaldehyde. metal oxide/oxides

## Section 11. Toxicological information

Information on toxicological effects
Acute toxicity

## Section 11. Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
aluminium powder (stabilised)	LC50 Inhalation Dusts and mists	Rat	>5 mg/l	4 hours
· · · · · · · · · · · · · · · · · · ·	LD50 Oral	Rat	>15900 mg/kg	-
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
Silicic acid, ethyl ester	LD50 Oral	Rat	6270 mg/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Dermal	Rabbit	>2000 mg/kg	-
2	LD50 Oral	Rat	2413 mg/kg	-
Solvent naphtha (petroleum), light aliph.	LC50 Inhalation Vapor	Rat	>20 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapor	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapor	Rat	2000 ppm	4 hours
	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10.768 g/kg	-
tetraethyl silicate	LC50 Inhalation Dusts and mists	Rat	10 to 16 mg/l	4 hours
	LD50 Dermal	Rabbit	5.878 g/kg	-
dibut tip dilourata	LD50 Oral	Rat	6270 mg/kg	-
dibutyltin dilaurate 2-butanone oxime	LD50 Oral LD50 Dermal	Rat Rabbit	2071 mg/kg 1100 mg/kg	-
2-butanone oxime	LD50 Oral	Rat	100 mg/kg	-
Conclusion/Summary	. There are no data available on th	o mixturo itoolf		
	: There are no data available on th			
	: There are no data available on th			
	: There are no data available on the second se	ne mixture itself.		
<u>Sensitization</u> <u>Conclusion/Summary</u>				
	: There are no data available on the	ne mixture itself		
	: There are no data available on the			
Mutagenicity				
	: There are no data available on the	ne mixture itself.		
Carcinogenicity				
Conclusion/Summary	: There are no data available on the	ne mixture itself.		
Reproductive toxicity				
,	There are no data available on th	e mixture itself.		
<u>Feratogenicity</u>	<b></b>			
	There are no data available on th	e mixture itself.		
Specific target organ toxicity	<u>(single exposure)</u>			

## Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
₩-(3-(trimethoxysilyl)propyl)ethylenediamine	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aliph.	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
tetraethyl silicate	Category 3	-	Respiratory tract irritation
dibutyltin dilaurate	Category 1	-	thymus

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Stoddard solvent	Category 1		central nervous system (CNS)
dibutyltin dilaurate	Category 1		immune system

Target organs

: Contains material which causes damage to the following organs: brain, upper respiratory tract, skin, eye, lens or cornea.

Contains material which may cause damage to the following organs: blood, kidneys, lungs, the nervous system, liver, immune system, central nervous system (CNS), testes.

#### Aspiration hazard

Name	Result
Stoddard solvent	ASPIRATION HAZARD - Category 1
Solvent naphtha (petroleum), light aliph.	ASPIRATION HAZARD - Category 1

#### Information on the likely routes of exposure

#### Potential acute health effects

r otoritiar addite ribuitir erioot	
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Defatting to the skin. May cause skin dryness and irritation. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sympto	oms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations

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## Section 11. Toxicological information

Skin contact	- 1	Adverse symptoms may include the following:
		irritation
		redness
		dryness
		cracking
		reduced fetal weight
		increase in fetal deaths
		skeletal malformations
Ingestion		Adverse symptoms may include the following:
		reduced fetal weight
		increase in fetal deaths
Delayed and immediate off	<b>t</b> .	skeletal malformations
		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. This product either contains formaldehyde or is capable of releasing formaldehyde above 0.5 ppm under certain conditions. Formaldehyde is a known cancer hazard, a skin sensitizer and a respiratory sensitizer. Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. There is some evidence that repeated exposure to organic solvent vapors in combination with constant loud noise can cause greater hearing loss than expected from exposure to noise alone. 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.
Chart term experies		contact.
Short term exposure		-
Potential immediate	-	There are no data available on the mixture itself.
effects		
Potential delayed effects	<b>;</b>	There are no data available on the mixture itself.
<u>Long term exposure</u>		
Potential immediate	1	There are no data available on the mixture itself.
effects		
Potential delayed effects	. :	There are no data available on the mixture itself.
Potential chronic health e		
General		-
General		Causes damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. 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		May damage fertility or the unborn child.
		may damage lefully of the diborn office.
Numerical measures of tox	<u>icity</u>	

## Section 11. Toxicological information

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)	
SX 892 HS ALUMINUM RESIN	53959.1	10939.3	N/A	299.8	N/A	
Silicic acid, ethyl ester	6270	N/A	N/A	N/A	N/A	
N-(3-(trimethoxysilyl)propyl)ethylenediamine	2413	2500	N/A	N/A	N/A	
Solvent naphtha (petroleum), light aliph.	N/A	2500	N/A	N/A	N/A	
n-butyl acetate	10768	N/A	N/A	N/A	N/A	
tetraethyl silicate	6270	5878	N/A	11	N/A	
dibutyltin dilaurate	2071	N/A	N/A	N/A	N/A	
2-butanone oxime	500	1100	N/A	N/A	N/A	

## Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
➡-(3-(trimethoxysilyl)propyl) ethylenediamine	EC50 597 mg/l	Fish	96 hours
n-butyl acetate	Acute LC50 18 mg/l	Fish	96 hours
dibutyltin dilaurate	EC50 0.463 mg/l	Daphnia	48 hours

#### Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
<b>p</b> -butyl acetate	TEPA and OECD 301D	83 % - Rea	dily - 28 days	-		-
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
-butyl acetate	-		-		Readily	

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Stoddard solvent	3.16 to 7.06	-	High
n-butyl acetate	2.3	-	Low
tetraethyl silicate	3.18	-	Low
dibutyltin dilaurate	4.44	-	High
2-butanone oxime	0.63	5.01	Low

#### Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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Product name PSX 892 HS ALUMINUM RESIN

## 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. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

#### 14. Transport information

	DOT	IMDG	IATA	
UN number	UN1263	UN1263	UN1263	
UN proper shipping name	PAINT	PAINT	PAINT	
Transport hazard class (es)	3	3	3	
Packing group	Ш	Ш	Ш	
Environmental hazards	No.	No.	No.	
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.	
Product RQ (lbs)	19136	Not applicable.	Not applicable.	
RQ substances	(xylene)	Not applicable.	Not applicable.	

#### **Additional information**

**DOT** : Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ (reportable quantity) transportation requirements.

**IMDG** : None identified.

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.

#### Transport in bulk according : Not applicable. to IMO instruments

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## Section 15. Regulatory information

#### **United States**

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

#### SARA 302/304

SARA 304 RQ

: Not applicable.

**Composition/information on ingredients** 

No products were found.

#### SARA 311/312

Classification

 FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 HNOC - Defatting irritant

#### Composition/information on ingredients

Name	%	Classification
Stoddard solvent	≥10 - ≤20	FLAMMABLE LIQUIDS - Category 3 EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		EXPOSURE) - Category 1
		ASPIRATION HAZARD - Category 1
		HNOC - Defatting irritant
Silicic acid, ethyl ester	≥1.0 - ≤5.0	EYE IRRITATION - Category 2A
N-(3-(trimethoxysilyl)propyl)	≥1.0 - <3.0	SERIOUS EYE DAMAGE - Category 1
ethylenediamine		SKIN SENSITIZATION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
Solvent naphtha (petroleum),	≥1.0 - ≤4.0	SKIN IRRITATION - Category 2
light aliph.		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3
		ASPIRATION HAZARD - Category 1
	10.150	HNOC - Defatting irritant
n-butyl acetate	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 2
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Narcotic effects) - Category 3 HNOC - Defatting irritant
totraathyl ailiaata	≥1.0 - ≤5.0	FLAMMABLE LIQUIDS - Category 3
tetraethyl silicate	≥1.0 - ≤5.0	ACUTE TOXICITY (inhalation) - Category 4
		EYE IRRITATION - Category 2A
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
		(Respiratory tract irritation) - Category 3
		HNOC - Defatting irritant
dibutyltin dilaurate	<1.0	SKIN CORROSION - Category 1C
		SERIOUS EYE DAMAGE - Category 1
		SKIN SENSITIZATION - Category 1
		GERM CELL MUTAGENICITY - Category 2
		TOXIC TO REPRODUCTION - Category 1B
		SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
	I	United States Page: 15/17

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CAS number

7429-90-5

**Concentration** 

10 - 30

Product name PSX 892 HS ALUMINUM RESIN

## Section 15. Regulatory information

2-butanone oxime	<1.0	Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1 FLAMMABLE LIQUIDS - Category 4 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1B CARCINOGENICITY - Category 2	
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#### <u>SARA 313</u>

#### Chemical name

Supplier notification : Aluminium powder (stabilized)

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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**: Reproductive Harm - www.P65Warnings.ca.gov.

## Section 16. Other information

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

Health : 3 \* Flammability : 3 Physical hazards : 1

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 and the associated label are not required on MSDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

<b>National Fire Protection Ass</b>	ociation (U.S.A.)
Health : 73 Flamma	ibility : 3 Instability : 1
Date of previous issue	: 5/29/2021
Organization that prepared the SDS	: 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) N/A = Not available SGG = Segregation Group UN = United Nations

#### 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.