SECTION 1: Identification of the substance/mixture and of the company/

# **SAFETY DATA SHEET**

United Arab Emirates

# Date of issue/Date of revision : 3

: 31 May 2024

Version

: 3.02

undertaking	
1.1 Product identifier	
Product name	: PSX 892 HS ALUMINUM RESIN
Product code	: 00281500
Other means of identification	on
Not available.	
1.2 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	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
Sigma Paint Saudi Arabia Ltd	
PO Box 7509 Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
T ax. 00300 130 47 17 34	
e-mail address of person	: ndpic@sfda.gov.sa
responsible for this SDS	
1.4 Emergency telephone	: 00966 138473100 extn 1001
number	

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1, H317 Carc. 1B, H350 STOT RE 1, H372

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

# 2.2 Label elements Hazard pictograms :



 Code
 : 00281500
 Date of issue/Date of revision
 : 31 May 2024

PSX 892 HS ALUMINUM RESIN

### **SECTION 2: Hazards identification**

Signal word	: Danger
Hazard statements	<ul> <li>Flammable liquid and vapour.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye irritation.</li> <li>May cause cancer.</li> <li>Causes damage to organs through prolonged or repeated exposure.</li> </ul>
Precautionary statements	
Prevention	: 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. Do not breathe vapour.
Response	: IF exposed or concerned: Get medical advice or attention.
Storage	: Not applicable.
Disposal	<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P202, P280, P210, P260, P308 + P313, P501</li> </ul>
Hazardous ingredients	<ul> <li>stoddard solvent Nota(s) P</li> <li>N-(3-(trimethoxysilyl)propyl)ethylenediamine</li> <li>dibutyltin dilaurate</li> <li>butanone oxime</li> <li>proprietary oligomers of aminoalkylmethoxysilanes</li> </ul>
Supplemental label elements	: Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
Special packaging requirem	<u>ients</u>
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

: Mixture

Code : 00281500 PSX 892 HS ALUMINUM RESIN Date of issue/Date of revision :

: 31 May 2024

# **SECTION 3: Composition/information on ingredients**

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
oddard solvent Nota(s) P	EC: 232-489-3 CAS: 8052-41-3 Index: 649-345-00-4	≥10 - ≤25	Eye Irrit. 2, H319 STOT RE 1, H372 (central nervous system (CNS)) Asp. Tox. 1, H304	-	[1] [2]
N-(3-(trimethoxysilyl)propyl) ethylenediamine	EC: 217-164-6 CAS: 1760-24-3	≥1.0 - <3.0	Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335	-	[1]
Solvent naphtha (petroleum), light aliph. Nota(s) P	EC: 265-192-2 CAS: 64742-89-8 Index: 649-267-00-0	≥1.0 - ≤5.0	Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304	-	[1]
n-butyl acetate	REACH #: 01-2119485493-29 EC: 204-658-1 CAS: 123-86-4 Index: 607-025-00-1	≥1.0 - ≤5.0	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	-	[1] [2]
tetraethyl silicate	REACH #: 01-2119496195-28 EC: 201-083-8 CAS: 78-10-4 Index: 014-005-00-0	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
dibutyltin dilaurate	REACH #: 01-2119496068-27 EC: 201-039-8 CAS: 77-58-7 Index: 050-030-00-3	<0.25	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 (thymus) STOT RE 1, H372 (immune system) (oral) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1] [2]
butanone oxime	REACH #: 01-2119539477-28 EC: 202-496-6 CAS: 96-29-7 Index: 616-014-00-0	≤0.30	Acute Tox. 3, H301 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1B, H350 STOT SE 1, H370 (upper respiratory tract) STOT SE 3, H336 STOT RE 2, H373 (blood system)	ATE [Oral] = 100 mg/ kg ATE [Dermal] = 1100 mg/kg	[1] [2]
proprietary oligomers of aminoalkylmethoxysilanes	CAS: SUB128800	≤0.30	Eye Dam. 1, H318 Skin Sens. 1, H317	-	[1] [2]
methanol	REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1	≤0.30	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331	ATE [Oral] = 100 mg/ kg ATE [Dermal] = 300 mg/kg	[1] [2]
		English	(GB) United Arab Er	nirates	3/16

Code : 00281 PSX 892 HS ALUMINI		Date of issue/Date of revision	on : 31 May 2024
SECTION 3: Co	mposition/information	on ingredients	
	Index: 603-001-00-X		ATE [Inhalation (vapours)] = 3 mg/l STOT SE 1, H370: C

			≥ 10% STOT SE 2, H371: 3% ≤ C < 10%	
		See Section 16 for the full text of the H statements declared above.		

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

SUB codes represent substances without registered CAS Numbers.

# SECTION 4: First aid measures

#### 4.1 Description of first aid measures

· · · · · · · · · · · · · · · · · · ·	
Eye contact	<ul> <li>Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.</li> </ul>
Inhalation	<ul> <li>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.</li> </ul>
Skin contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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.

Potential acute health	<u>n effects</u>
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	/symptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.

Code : 00281500	Date of issue/Date of revision : 31 May 2024
PSX 892 HS ALUMINUM RES	SIN
SECTION 4: First aid	l measures
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any immed	ate medical attention and special treatment needed
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.
<b>SECTION 5: Firefigh</b>	ting measures
5.1 Extinguishing media Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing	: Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Fammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides Formaldehyde.
5.3 Advice for firefighters	
Special precautions 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	ctive 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 spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialised 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".

Code	: 00281500	Date of issue/Date of revision	: 31 May 2024
PSX 892 HS /	ALUMINUM RESIN		

#### **SECTION 6: Accidental release measures**

6.2 Environmental precautions	: Avoid dispersal of spilt 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.
6.3 Methods and material for	containment 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 the 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spill product.
6.4 Reference to other sections	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 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. 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 vapour 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 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.
	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.
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.

Code : 00281500 PSX 892 HS ALUMINUM RE	Date of issue/Date of revision : 31 May 2024 ESIN
SECTION 7: Handli	
7.2 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 containe 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. Eliminar all ignition sources. Separate from oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name Exposure limit values		
Afuminium powder (stabilized) Stoddard solvent	<ul> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006). TWA: 10 mg/m<sup>3</sup> 8 hours.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). [aluminum metal and insoluble compounds]</li> <li>TWA: 1 mg/m<sup>3</sup> 8 hours. Form: measured as respirable fraction of the aerosol</li> <li>ACGIH TLV (United States, 7/2023). [Aluminum, metal and insoluble compounds]</li> <li>TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 1 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 525 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>TWA: 525 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 100 ppm 8 hours.</li> <li>ACGIH TLV (United States, 7/2023). Notes: Substances for which the TLV is higher than the OSHA Permissible Exposure Limit (PEL) and/or the NIOSH Recommended Exposure Limit (REL). See CFR 58(124) :36338-33351, June 30, 1993, for revised OSHA PEL.</li> <li>TWA: 525 mg/m<sup>3</sup> 8 hours.</li> </ul>	
silicon dioxide	TWA: 100 ppm 8 hours. <b>Abu Dhabi - OSHAD - Occupational air quality threshold limit</b> <b>values (United Arab Emirates, 7/2016). [silica]</b> TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable particle TWA: 3 mg/m <sup>3</sup> 8 hours. Form: respirable particulate	
n-butyl acetate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016). STEL: 950 mg/m <sup>3</sup> 15 minutes. STEL: 200 ppm 15 minutes.	
	English (GB) United Arab Emirates 7/16	

ode : 00281500	Date of issue/Date of revision : 31 May 2024
PSX 892 HS ALUMINUM RES	IN
tetraethyl silicate	<ul> <li>TWA: 713 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 150 ppm 8 hours.</li> <li>ACGIH TLV (United States, 7/2023). [Butyl acetates] STEL: 150 ppm 15 minutes.</li> <li>TWA: 50 ppm 8 hours.</li> <li>Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016).</li> <li>TWA: 10 ppm 8 hours.</li> <li>TWA: 85 mg/m<sup>3</sup> 8 hours.</li> <li>Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006).</li> <li>TWA: 10 ppm 8 hours.</li> <li>TWA: 10 ppm 8 hours.</li> <li>TWA: 85 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 85 mg/m<sup>3</sup> 8 hours.</li> <li>TWA: 10 ppm 8 hours.</li> </ul>
Recommended monitoring procedures	: Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
.2 Exposure controls	
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation of other engineering controls to keep worker exposure to airborne contaminants below an recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>ires</u>
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 <u>Skin protection</u>	: Chemical splash goggles.
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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher
	(breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Code : 00281500	Date of issue/Date of revision : 31 May 2024
PSX 892 HS ALUMINUM RES	IN
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 antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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.
<b>Respiratory protection</b>	: · · · · · · · · · · · · · · · · · · ·
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.

## **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties

<u>Appearance</u>					
Physical state	1	Liquid.			
Colour	1	Not available.			
Odour	1	Characteristic.			
Odour threshold	1	Not available.			
Melting point/freezing point	:	May start to solidify at the following temperature: <-60°C (<-76°F) This is based on data for the following ingredient: Solvent naphtha (petroleum), light aliph Weighted average: -79.83°C (-111.7°F)			
Initial boiling point and boiling range	:	>37.78°C			
Flammability	1	Not available.			
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.3% Upper: 23% (tetraethyl silicate)			
Flash point	:	Closed cup: 32.78°C			
Auto-ignition temperature	1	Ingredient name	°C	°F	Method
		Stoddard solvent	230 to 240	446 to 464	
Decomposition temperature	:	Stable under recommended sto	rage and har	dling conditio	ons (see Section 7).
pH	1	Not applicable. insoluble in wate	er.		
Viscosity	1	Kinematic (40°C): >21 mm²/s			
Solubility(ies)	1				
Media		Result			
cold water		Not soluble			
Water Solubility at room temperature	:	5.5 g/l			
Partition coefficient: n-octanol/ water	:	Not applicable.			
Vapour pressure	1	1.7 kPa (12.8 mm Hg)			
Evaporation rate	1	0.89 (butyl acetate = 1)			
Relative density	4	1.19			
Vapour density	:	Highest known value: 7.22 (Air (Air = 1)	= 1) (tetraet	hyl silicate). \	Weighted average: 4.85
Explosive properties	1				
		English (GB)	United /	Arah Emirate	s 9/16

Code<th:: 00281500</th>Date of issue/Date of revision: 31 May 2024PSX 892 HS ALUMINUM RESIN

### **SECTION 9: Physical and chemical properties**

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

- **Oxidising properties** : Product does not present an oxidizing hazard.
- Particle characteristics Median particle size :

: Not applicable.

#### 9.2 Other information

No additional information.

### **SECTION 10: Stability and reactivity**

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
10.5 Incompatible materials	: Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 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**

#### **11.1 Information on toxicological effects**

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Stoddard solvent	LD50 Oral	Rat	>5 g/kg	-
N-(3-(trimethoxysilyl)propyl) ethylenediamine	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	2413 mg/kg	-
Solvent naphtha (petroleum), light aliph.	LC50 Inhalation Vapour	Rat	>20 mg/l	4 hours
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
n-butyl acetate	LC50 Inhalation Vapour	Rat	>21.1 mg/l	4 hours
	LC50 Inhalation Vapour	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	-
	LD50 Oral	Rat	6270 mg/kg	-
dibutyltin dilaurate	LD50 Oral	Rat	2071 mg/kg	-
2-butanone oxime	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	100 mg/kg	-
methanol	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

English (GB)

) United Arab Emirates

10/16

Code : 00281500	Date of issue/Date of revision	: 31 May 2024
PSX 892 HS ALUMINUM RESIN		

# **SECTION 11: Toxicological information**

<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Irritation/Corrosion	
<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Eyes	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Sensitisation	
<b>Conclusion/Summary</b>	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
Mutagenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
<b>Carcinogenicity</b>	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Reproductive toxicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Teratogenicity	
<b>Conclusion/Summary</b>	: There are no data available on the mixture itself.
Specific target organ toxic	<u>city (single exposure)</u>

Product/ingredient name	Category	Route of exposure	Target organs
N-(3-(trimethoxysilyl)propyl)ethylenediamine	Category 3	-	Respiratory tract irritation
Solvent naphtha (petroleum), light aliph. Nota(s) P	Category 3	-	Narcotic effects
n-butyl acetate	Category 3	-	Narcotic effects
tetraethyl silicate	Category 3	-	Respiratory tract irritation
dibutyltin dilaurate	Category 1	-	thymus
butanone oxime	Category 1	-	upper respiratory tract
	Category 3		Narcotic effects
methanol	Category 1	-	-

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

Product/ingredient name	Category	Route of exposure	Target organs
stoddard solvent Nota(s) P	Category 1	-	central nervous system (CNS)
dibutyltin dilaurate	- 3,	oral	immune system
butanone oxime	Category 2	-	blood system

**Aspiration hazard** 

Product/ingredient name	Result	
stoddard solvent Nota(s) P	ASPIRATION HAZARD - Category 1	
Solvent naphtha (petroleum), light aliph. Nota(s) P	ASPIRATION HAZARD - Category 1	

	English (GB) United Arab Emirates 11/16
Eye contact	: Causes serious eye irritation.
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.
Inhalation	: No known significant effects or critical hazards.
Potential acute health effects	
Information on likely routes of exposure	: Not available.

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Code : 00281500 PSX 892 HS ALUMINUM RES	IN	Date of issue/Date of revision : 31 May 2024
SECTION 11: Toxico	lo	gical information
Symptoms related to the ph	ys	ical, chemical and toxicological characteristics
Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness dryness cracking
Eye contact	:	Adverse symptoms may include the following: pain or irritation watering redness
Delayed and immediate effe	cts	as well as chronic effects from short and long-term exposure
Short term exposure Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Long term exposure		
Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.
Potential chronic health effe	ect	<u>s</u>
Not available.		
Conclusion/Summary	:	Not available.
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 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	:	No known significant effects or critical hazards.
<b>O</b> (1) <b>( (</b> )		

**Other information** : Not available.

Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Trimethoxysilanes are capable of forming methanol if hydrolyzed or ingested. If swallowed, methanol may be harmful or fatal or cause blindness. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. Avoid contact with skin and clothing.

#### **11.2 Information on other hazards**

#### **11.2.1 Endocrine disrupting properties**

Not available.

#### 11.2.2 Other information

Not available.

Code : 00281500 PSX 892 HS ALUMINUM RESIN Date of issue/Date of revision :

: 31 May 2024

**SECTION 12: Ecological information** 

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
M-(3-(trimethoxysilyl)propyl)ethylenediamine n-butyl acetate dibutyltin dilaurate methanol	EC50 597 mg/l Acute LC50 18 mg/l EC50 0.463 mg/l Acute LC50 13 mg/l Fresh water	Fish Fish Daphnia Fish	96 hours 96 hours 48 hours 96 hours

**Conclusion/Summary** 

: There are no data available on the mixture itself.

#### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum	
n-butyl acetate	TEPA and OECD 301D	83 % - Readily - 28 days	-	-	
<b>Conclusion/Summary</b> : There are no data available on the mixture itself.					
Product/ingredient name Aquatic half-life Photolysis Biodegradability					
n-butyl acetate		-	-	Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
stoddard solvent Nota(s) P	3.16 to 7.06	-	High
n-butyl acetate tetraethyl silicate	2.3 3.18	-	Low Low
dibutyltin dilaurate	4.44	-	High
butanone oxime methanol	0.63 -0.77	5.01 -	Low Low

#### **12.4 Mobility in soil**

Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

Code : 00281500 Date of issue/Date of revision : 31 May 2024 PSX 892 HS ALUMINUM RESIN

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

Product	
Methods of disposal	: The generation of waste should be avoided or minimised 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.
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### European waste catalogue (EWC)

Waste code	Waste designation		
08 01 99	wastes not otherwise specified		
Packaging			

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Type of packaging	European waste catalogue (EWC)		
Container	15 01 06	mixed packaging	
Special precautions	taken when h Empty contair residues may Do not cut, we	and its container must be disposed of in a safe way. Care should be andling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. eld or grind used containers unless they have been cleaned thoroughly roid dispersal of spilt material and runoff and contact with soil, waterways, ewers.	

# **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	111	Ш	Ш
14.5 Environmental hazards	No.	No.	No.
Marine pollutant substances	Not applicable.	Not applicable.	Not applicable.

#### **Additional information**

ADR/RID	: None identified.
Tunnel code	: (D/E)
IMDG	: None identified.

Code : 00281500 PSX 892 HS ALUMINUM RESIN	Date of issue/Date of revision : 31 May 2024
SECTION 14: Transpo	ort information
IATA : None ident	
146 Special processions for	
user	: <b>Transport within user's premises:</b> 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.
14.7 Transport in bulk according to IMO instruments	: Not applicable.
SECTION 15: Regulat	ory information
15.1 Safety, health and enviro	nmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907	/2006 (REACH)
Annex XIV - List of substan	ces subject to authorisation
Annex XIV	
None of the components are	listed.
Substances of very high co	oncern
None of the components are	listed.
	: Restricted to professional users.
on the manufacture,	
placing on the market	
and use of certain	
dangerous substances, mixtures and articles	
Other national and internatio	nal regulations
	Phis product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.
Ozone depleting substances	•
Not listed.	
15.2 Chemical safety assessment	No Chemical Safety Assessment has been carried out.

# **SECTION 16: Other information**

Indicates information that	s changed from previously issued version.		
Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number</li> </ul>		
Full text of abbreviated H statements	<ul> <li>H225 Highly flammable liquid and vapour.</li> <li>H226 Flammable liquid and vapour.</li> <li>H301 Toxic if swallowed.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H311 Toxic in contact with skin.</li> <li>H312 Harmful in contact with skin.</li> <li>H314 Causes severe skin burns and eye damage.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> </ul>		
	English (GB) United Arab Emirates 15/16		

Code : 00281500		Date of issue/Date of revision : 31 May 2024
PSX 892 HS ALUMINUM RESIN	١	
SECTION 16: Other in	formation	
	H319 Causes serio	ous eye irritation.
	H331 Toxic if inhal	
	H332 Harmful if inh	
		espiratory irritation.
		rowsiness or dizziness.
	H341 Suspected of H350 May cause c	f causing genetic defects.
		fertility. May damage the unborn child.
		age to organs.
		age to organs through prolonged or repeated exposure.
		amage to organs through prolonged or repeated exposure.
	H400 Very toxic to	
		aquatic life with long lasting effects.
	EUH066 Repeated ex	posure may cause skin dryness or cracking.
Full text of classifications	: Acute Tox. 3	ACUTE TOXICITY - Category 3
[CLP/GHS]	Acute Tox. 4	ACUTE TOXICITY - Category 4
	Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
	Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
	Asp. Tox. 1 Carc. 1B	ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 1B
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
	Muta. 2	GERM CELL MUTAGENICITY - Category 2
	Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B
	Skin Corr. 1C Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1	SKIN CORROSION/RKITATION - Category 2 SKIN SENSITISATION - Category 1
	Skin Sens. 1B	SKIN SENSITISATION - Category 1B
	STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 1
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
	0707054	EXPOSURE - Category 2
	STOT SE 1	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
	STOT SE 3	EXPOSURE - Category 1 SPECIFIC TARGET ORGAN TOXICITY - SINGLE
	0101 02 0	EXPOSURE - Category 3
History		
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Prepared by	: EHS	
Version	: 3.02	
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