

Material Safety Data Sheet

Material Name: PSX 60 Resin

ID: AMER-017

The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

***** Section 1 - Chemical Product and Company Identification *****

Part Number: NA

Chemical Name: Filled Epoxy Resin

Product Use: Conductive Resin for Adhesive kit

Synonyms: NA

Manufacturer Information

Ameron International Fiberglass Div
1004 Ameron Road
P. O. Box 878
Burkburnett, TX 76354

Phone#: (940) 569-1471
Fax #: (940) 569-2764
Emergency #: (940) 569-1471
Chemtrec 24 hr#: (800) 424-9300

***** Section 2 - Composition / Information on Ingredients *****

CAS#	Components	Percent
#28064-14-4	Epoxy Resin (Epch** @ <5 ppm)	65
#14808-60-7	Silica (Crystalline **)* Fed OSHA: N NTP: Y ACGIH: N IARC: 2A * Cancer or cancer suspect agent	20
#13983-17-0	Calcium Silicate	15
#67762-90-7	Colloidal Silica (Amorphous)	5
Proprietary	Proprietary (Methanol, hydrolysis generated, 250 ppm ceiling)	5
NA	Stainless Steel fibers	<5

REGULATORY: ** CALIF, TITLLE 26:22-12000 (Prop 65). Warning: This product contains a chemical known to the State of California to cause cancer. All ingredients are on TSCA inventory or are exempt. (SARA, CERCLA, HAPs) toxic chemical subject to reporting requirements of SARA and CERCLA (40 CFR 302, 355, 372) or HAPs (40 CFR 63)

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

***** Section 3 - Hazards Identification *****

Emergency Overview: Vapor or spray mist or spattered material can be harmful. Irritating to eyes, skin, and if inhaled; to nose and throat. Excessive or prolonged inhalation can cause headache, nausea or dizziness. Repeated and prolonged occupational overexposure to solvents ia associated with permanent brain and nervous system damage. Intentional abuse, misuse or other massive exposure to solvents may cause multiple organ damage and /or death.

Hazard Statements: Warning! May cause allergic skin and respiratory sensitization reactions with prolonged or repeated contact. May be irritating to eyes, skin and respiratory system. When adhesive resin is combined with adhesive hardener, vapors and a moderate amount of heat may be released. The Crystalline Silica (Quartz) in the dust form is considered a Cancer or Cancer suspect agent when it is breathed, in this kit the sand is completely incorporated into the resin mix and will only pose a health problem if the cured adhesive is subjected to mechanical grinding.

Potential Health Effects: Eyes This product may cause irritation to the eyes, including redness, swelling, pain, tearing.

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Potential Health Effects: Skin This product may cause skin irritation, including redness, inflammation, and dermatitis. Prolonged or repeated skin contact may cause allergic skin sensitization reactions, resulting in rash, swelling, itching, and possibly blistering of skin.

Potential Health Effects: Ingestion Ingestion can cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Potential Health Effects: Inhalation Heating this product may release harmful vapors. Prolonged or repeated inhalation may cause allergic sensitization reactions, resulting in asthma-like symptoms. The Crystalline Silica (Quartz) in the dust form is considered a Cancer or Cancer suspect agent when it is breathed, in this kit the sand is completely incorporated into the resin mix and will only pose a health problem if the cured adhesive is subjected to mechanical grinding.

HMIS RATINGS: Health: 2 Fire: 1 Reactivity: 0 Pers. Prot. gloves:

Hazard Scale: 0 = Minimal 1= Slight 2= Moderate 3= Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention or advice.

First Aid: Skin For skin contact, wash immediately with soap and water. Get medical attention if irritation persists or develops.

First Aid: Ingestion If the material is swallowed, get immediate medical attention or advice-- Do not induce vomiting unless instructed to do so by medical personnel.

First Aid: Inhalation If inhaled, immediately remove to fresh air. Provide artificial respiration if necessary. If symptoms develop or persist, get immediate medical attention.

First Aid: Notes to Physician Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

Flash Point: 200°F

Method Used: SETA

Upper Flammable Limit (UFL): NA

Lower Flammable Limit (LFL): NA

Auto Ignition: NA

Flammability Classification: OSHA: Combustible - Class IIIB

General Fire Hazards:

Irritating and toxic gases or fumes may be released during a fire.

Extinguishing Media:

Foam, carbon dioxide, and dry chemical

Fire Fighting Equipment/Instructions: Closed containers may explode when exposed to extreme heat and pressure buildup. May produce a floating fire hazard. Isolate from electrical equipment, sparks, heat and open flame. Vapors may spread long distances, cause flash fire or ignite explosively. Firemen should wear full protective equipment, self-contained breathing apparatus. Water may be used to cool closed containers to prevent pressure build-up or explosion when exposed to extreme heat.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0 Other: 0

Hazard Scale: 0 = Minimal 1= Slight 2= Moderate 3= Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures: Remove all sources of ignition. Avoid breathing vapors. Ventilate area. Use absorbent, inert cleanup materials. (DO NOT USE SAWDUST)

Clean-Up Procedures: Remove absorbent material with non-sparking tools. Place in separate container. Keep out of sewers and waterways. If entry is threatened or occurs, notify local authorities.

Evacuation Procedures: Isolate area. Keep unnecessary personnel away.

Special Procedures: None

*** Section 7 - Handling and Storage ***

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Handling Procedures

Do not get this material in your eyes, on your skin, or on your clothing. Use this product with adequate ventilation. Avoid breathing fumes if this product is used at high temperatures. When adhesive resin is combined with adhesive hardener, vapors and a moderate amount of heat may be released. Avoid breathing these vapors. Keep this product from heat, sparks, or open flame. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.

Storage Procedures: Keep the container tightly closed and store in a shady, well-ventilated place less than 100°F.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines: Calcium Silicate ACGIH TLV-TWA 5.00 Mg/M³; Osha PEL-TWA 5.00 Mg/M³; Colloidal Silica ACGIH TLV-TWA 5.00 Mg/M³; OSHA PEL-TWA 5.00 Mg/M³

Engineering Controls: Good general ventilation required. Use local exhaust if necessary.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face: Wear chemical goggles.

Personal Protective Equipment: Skin: Use impervious gloves. Use of protective coveralls and long sleeves is recommended.

Personal Protective Equipment: Respiratory: If ventilation is not sufficient to effectively remove vapors and fumes, appropriate NIOSH/MSHA respiratory protection must be provided.

Personal Protective Equipment: General: Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Reddish orange paste	Odor:	Slight
Physical State:	Thick paste	pH:	NA
Vapor Pressure:	NA	Vapor Density:	Is heavier than air
Boiling Point:	NA	Melting Point:	NA
Solubility (H₂O):	No	Weight per gallon:	12
Freezing Point:	NA	Particle Size:	NA
Softening Point:	NA	Evaporation Rate:	Is slower than Butyl Acetate
Viscosity:	200,000 cps +	Bulk Density:	NA
Percent Volatile:	0.35	Molecular Weight:	

Physical Properties: Additional Information:None

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability: Stable

Chemical Stability: Conditions to Avoid: Keep container tightly closed. Keep away from incompatible materials. This product may react with oxidizing agents and strong acids.

Incompatibility: Strong oxidizers, acids and alkalis.

Hazardous Decomposition: Carbon monoxide, ammonia, and aldehydes.

Hazardous Polymerization: When mixed with a hardener, an irreversible, exothermic polymerization reaction occurs, liberating vapors and a moderate amount of heat.

*** Section 11 - Toxicological Information ***

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Acute Toxicity

A: General Product Information: No data available for product. Epoxy resins, in general, are irritating to eyes, skin, mucous membranes, and respiratory system, and may produce allergic respiratory and skin sensitization reactions. Allergic skin sensitization reactions may result in rash, swelling, itching, and possibly blistering of skin. Allergic respiratory sensitization reactions produce an asthma-like condition. The Crystalline Silica (Quartz) in the dust form is considered a Cancer or Cancer suspect agent when it is breathed, in this kit the sand is completely incorporated into the resin mix and will only pose a health problem if the cured adhesive is subjected to mechanical grinding.

B: Component LD50/LC50
Epoxy resin LC₅₀ 6,000 ppm

Carcinogenicity

A: General Product Information: No data available for product.

B: Component Carcinogenicity: The Crystalline Silica (Quartz) in the dust form is considered a Cancer or Cancer suspect agent when it is breathed, in this kit the sand is completely incorporated into the resin mix and will only pose a health problem if the cured adhesive is subjected to mechanical grinding.

Epidemiology: No data available for product.

Neurotoxicity: No data available for product.

Mutagenicity: No data available for product.

Teratogenicity: No data available for product.

Other Toxicological Information: No data available for product.

*** Section 12 - Ecological Information ***

Ecotoxicity: No data available for product.

Environmental Fate: No data is available concerning environmental fate, biodegradation, or bioconcentration for this product.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information: EPA waste No: D018

B: Component Waste Numbers: NA

Disposal instructions: Place in separate, appropriate, closed container in accordance with all applicable local, state, and federal regulations. This material has not been tested by Toxicity Characteristic Leaching Procedure (TLCP).

*** Section 14 - Transportation information ***

US DOT Information

Shipping Name: Not Regulated

Hazard Class: NA

UN/NA#: NA

Packing Group: NA

Required Label(s): NA

Additional Info.: NA

International Transportation regulations: NA

*** Section 15 - Regulatory Information ***

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US Federal Regulations

A: General Product Information:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

B: Component Information: NA

State Regulations

A: General Product Information: No additional information.

B: Component Information: No additional information.

Other Regulations

A: General Product Information: Components of this product have been checked against the non-confidential TSCA inventory by CAS registry number. Components not identified on this non-confidential inventory are exempt from listing (i.e. polymers) or are listed on the confidential inventory as declared by the supplier.

B: Component Information: No components are listed in the WHMIS IDL. All identified ingredients are on the Canadian Domestic Substances List.

*** Section 16 - Other Information ***

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

NA = Not Applicable; NE = Not Established; EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; SADT = Self Accelerating Decomposition Temperature.

Contact Person: Douglas Boberg

Contact Phone: (940) 569-1471

This is the end of MSDA # AMER-017