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 Manufacturer's CAGE: 1P573



Material Safety Data Sheet

SPI #05000-AB Silver Epoxy Resin, Part A (not sold separately but only as a component of a two part kit)

Section 1: Identification

Date Effective..... January 8, 2009
 (most recent revision)

Chemical Name/Synonyms...
 On Label:
 CW Fast Setting Conductive Silver Epoxy

Chemical Family..... Not known

Emergencies
 Contacting CHEMTREC:


24 Hour Emergency Use Only #'s...
 Worldwide phone: 1-(703)-527-3887
 Worldwide FAX: 1-(703)-741-6090
 Toll-free phone: 1-(800)-424-9300 USA only

Product or Trade Name.... SPI #05000-AB CW Fast Setting
 Conductive Silver Epoxy

CAS #..... Not applicable: Mixture of organic
 resins and silver particles

Chemical Formula..... Not applicable: Mixture



Hazardous Material Information System USA	Health	3	National Fire Protection Association USA	
	Fire Hazard	1		
	Reactivity	1		
	Personal Protection			

NFPA and HMIS Codes:	NFPA	HMIS
Health	3	3
Flammability	1	1
Reactivity	1	1

Personal Protection - B

Section 2 Composition

Chemical Name	CAS No.	Wt. % Range
Silver (Metallic)	7440-22-4	60.0-90.0
Epoxy Resin	025068-38-6	10.0-25.0
Modified Epoxy Ester	mixture	1.0-3.0

Section 3: Hazard Identification

Emergency Overview:

Silver/gray paste with mild odor. This product is nonflammable. Liquid will irritate eyes and skin. Breathing high concentrations may produce headaches and dizziness.

Potential Health Effects:

Eyes: Liquid and vapors of this product may cause eye injury which may persist for several days.

Skin: Contact may cause skin injury (reddening and swelling). Sensitizer - may cause allergic skin reaction.

Ingestion: Harmful if swallowed. Resin is slightly toxic. Silver ingestion may result in generalized argyria.

Inhalation: No specific information available. Heating can generate

vapors that could cause headaches, nausea, dizziness and respiratory irritation if inhaled.

Pre-Existing Medical Conditions Aggravated by Exposure:
Heart, lung, eye, skin

Section 4: First Aid Measures

Eyes: Immediately flush with large amounts of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined by a Physician.

Skin: Remove contaminated clothing and wash skin with soap and water. Get medical attention if irritation develops persists. Wash clothes separately before reuse.

Ingestion: If appreciable quantities are swallowed, seek medical attention.

Inhalation: In case of exposure to high concentrations of vapor or mist, remove to fresh air. If breathing is difficult, give oxygen and call a Physician. If breathing has stopped, apply artificial respiration and call a Physician.

Section 5: Fire Fighting Measures

Flash Point: > 200°F (Setaflash)

LEL/UEL: Not established (% by volume in air)

Extinguishing Media:

Use carbon dioxide or dry chemicals for small fires, aqueous foam or water for large fires involving this material.

Fire Fighting Instructions:

Remove all ignition sources. As in any fire, wear self-contained breathing apparatus (pressure demand, OSHA/NIOSH approved or equivalent) and full protective gear.

Section 6: Accidental Release Measures

Large Spills:

Remove all sources of ignition (sparks, open flames, etc.). Wears self-contained breathing apparatus and appropriate personal protective equipment. Ventilate area and contain spill by diking and/or absorbing with inert material. Collect spill by scooping up liquids and absorbent material and place in a chemical waste container for proper disposal. Do not flush to sewer. Prevent material from entering storm sewers, ditches that lead to waterways and ground. Considering the small quantity packaging sold by SPI Supplies, this kind of spill is highly unlikely.

Small Spills:

Absorb spill with absorbent material, then place in a chemical waste container for proper disposal.

Section 7: Handling and Storage

Overheating may cause container to rupture. Use explosion proof electrical equipment. Containers must be kept closed and ventilation provided to prevent vapor concentration build-up. Store in a cool dry place. Do not breath vapor or get liquid in eyes, or on skin and clothing. Keep away from heat or sources of ignition. Check all containers for leaks. Wear protective clothing as in section above. Avoid prolonged breathing of vapors or contact with skin. Ensure that all equipment is grounded to prevent static discharge. Containers of this material may be hazardous when emptied due to solid or vapor residue. All hazard precautions given in this data sheet must be observed for empty containers.

Keep out of reach of children!

Section 8: Exposure Controls and Personal Protection**Exposure Guidelines:**

CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
Silver	0.1 mg/m ³	0.01mg/m ³	NA
Epoxy Resin	NA	NA	NA
Modified Epoxy Ester	NA	NA	NA

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of

this product. Wear safety glasses with side shields or goggles and rubber or other chemically resistant gloves when handling this material.

Section 9: Physical and Chemical Properties

Physical State: Silver/gray Paste
Solubility in Water: Moderate < 10%
Odor: Mild
Specific Gravity: 2.5 - 2.8
pH: NA
Evaporation Rate: slower (Butyl acetate = 1)
Vapor Pressure: < 0.10 mmHg @ 20°C (Air = 1)
Boiling Range: Boiling to > 93°C (200°F) (Water = 1)
Vapor Density: NA
Percent Volatile: < 0.5

Section 10: Stability and Reactivity

Stability: Unstable.

Conditions to Avoid:

Storage above 120°F, exposure to light, loss of dissolved air, loss of polymerization, inhibitor, contamination with incompatible materials.

Incompatibility:

Avoid strong oxidizing agents, copper, copper alloys, carbon steel, iron and rust. Avoid strong acids and bases. Also avoid caustics, amines, alkalis and mercaptans.

Products of Decomposition: Carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

Conditions to avoid: Polymerization initiators including peroxides, strong oxidizing agents, copper, copper alloys, carbon steel, iron, rust or strong bases. Contamination with strong acids, amines or mercaptans can cause polymerization.

Section 11: Toxicological Information

Ingredients	LD50		LD50 (ppm)	
	(rat)	Oral (rbt)	Dermal (rat)	Inhalation
Silver (metallic)	>10	gm/kg (mouse)	NA	NA
Epoxy Resin	100	mL/kg	>20	mL/kg
Modified Epoxy Ester	NA		NA	NA

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

Section 12: Ecological Information

Environmental Impact Information:

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

Reporting:

United States regulations require reporting spills of this material that could reach any surface waters. The toll-free number for the US Coast Guard National Response Center is: 1-800-424-8802

Section 13: Disposal Considerations

Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.

Section 14: Transport Information

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Proper Shipping Name: Adhesives, sealants

DOT Hazard Class: Non-Regulated

UN/NA ID: Non-Regulated

Packing Group: Not Applicable

Labels: Not Regulated

Marine Pollutant: No

NAER Guidebook: Not Regulated

DOT Status: Not Regulated

Land-Road/Railway:

ADR/RID Class: No dangerous cargo

Sea: IMDG Class: No dangerous cargo

Air: IATA-DGR Class: No dangerous cargo

Section 15: Regulatory Information

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Product contains no Section 313 listed chemicals.

Other Information:

Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

WHMIS Ingredient Disclosure list: None
Status: Noncontrolled

California Prop. 65:

Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State has found to cause cancer, birth defects or other reproductive harm. If this product contains an ingredient listed by the State of California to cause cancer or reproductive toxicity, it will be listed below:

None found

Section 16: Other Information

Disclaimer of Liability:

Caution! Do not use SPI Supplies products or materials in applications involving implantation within the body; direct or indirect contact with the blood pathway; contact with bone, tissue, tissue fluid, or blood; or prolonged contact with mucous membranes. Products offered by SPI Supplies are not designed or manufactured for use in implantation in the human body or in contact with internal body fluids or tissues. SPI Supplies will not provide to customers making devices for such applications any notice, certification, or information necessary for such medical device use required by US FDA (Food and Drug Administration) regulation or any other statute. SPI Supplies and Structure Probe, Inc. make no representation, promise, express warranty or implied warranty concerning the suitability of these materials for use in implantation in the human body or in contact with internal body tissues of fluids.

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