

Material Safety Data Sheet

For chemicals, coatings, and related materials
In compliance with OSHA 29 CFR 1910.1200

Date Prepared:
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Section I – Product

NAME: Polycast 8500
CLASS: Epoxy Compound

HMIS HAZARD CODES
Health: 1 (Slight)
Flammability: 1 (Slight)
Reactivity: 0 (Minimal)
Personal Protective Equipment: H

Section II – Hazardous Ingredients

---Ingredient---	Percent	C.A.S. Registry	LEL	Vapor Pressure
Material Description	by Weight			mm Hg @ 20°C
Powder Epoxy Resin	5-10	*Trade Secret	n/a	0.99
Silica Sand	90-95	14808-60-7	n/a	n/a

Section III – Physical Data

Boiling Range: n/a Freezing Point: n/a
Vapor Pressure: n/a mm@20°C Vapor Density: n/a
Specific Gravity: 2.4 H₂O Solubility: Negligible (< 0.1%)
Evaporation Rate: Slower % Volatile by Volume: n/a %
(relative to n-butyl acetate)
Appearance and Odor: Clear/Neutral Liquid (gel) , Slight Odor.

Section IV – Fire and Explosion Hazard Data

Flash point: 350°F Explosive Limits: LEL UEL (%V in air)
(Method used) Pensky-Martens n/a n/a

Flammability Classification

OSHA: Combustible Liquid – Class III B

DOT: Not regulated

Extinguishing Media:

Water Fog, Foam, Carbon Dioxide (CO₂), Dry Chemical

Special Fire Fighting Procedures:

Use water fog to cool containers.

Wear protective clothing. Fight fire from a safe distance.

Close all valves to the area. Shut off all power to the area.

Emergency lights must be turned on.

Self-contained breathing apparatus is to be used.

Under fire conditions irritating and/or toxic gases may be present.

Unusual Fire and Explosion Hazards: None

Section V – Toxicological Information

---Ingredient---	OSHA	ACGIH	LD50 (mg/kg)		LC50 (ppm)
Material Ingredient	PEL	TLV (tw)	(rat)	(rbd)	(rat)
		Mg/m ³	ppm	oral	dermal
Powder Epoxy Resin	n/a	n/a	n/a	11400	20001
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Section VI – Health Hazard Data

Effects of Overexposure: Threshold Limit Values: See Section V.

Vapors may irritate the eyes and respiratory tract.
Contact irritating to eyes and moderately irritating to skin.
May cause skin sensitization and other allergic responses.
May aggravate an existing dermatitis.

Emergency and First Aid Procedures:

Move to fresh air. Apply artificial respiration, if necessary.
Wash skin with soap and water or waterless hand cleaners.
Remove contaminated clothing.
Induce vomiting.
Drink large quantities of water immediately.
Flush Eyes with water for 15 minutes, and get medical attention.
If breathing is difficult, oxygen may be given.

Section VIII – Reactivity Data

Stability: Stable

Stability Conditions to Avoid: None.

Incompatibility (Materials to Avoid Contact With):

Strong oxidizing agents and mineral acids.

Hazardous Decomposition Products:

Oxides of carbon and aldehydes.
Toxic monomer fumes and/or short chain hydrocarbons.

Hazardous Polymerization: Will not occur.

Polymerization Conditions to Avoid: None.

Section VIII – Spill or Leak Procedures

Steps For Material Spillage:

Absorb with sand and dispose of in an approved manner.
Dike area with sand to contain spilled liquid.
Prevent spillage from entering underground water systems.
Ventilate area. Flush area with water but do NOT flush into sewer.
Remaining material may be emulsified with soap and water and absorbed.
Scoop up contaminated soil and place in dry drums.
Large spills may be pumped into closed, but not sealed containers.

Waste disposal methods:

Empty decontaminated containers should be crushed to prevent reuse.
Dispose of in accordance with local regulations.

Section IX – Special Protection Information

Respiratory protection:

NESA/NIOSH approved respirator is highly recommended.

Self-contained breathing apparatus in concentrations above PEL/TLV.

**Avoid breathing mists, vapors, or fumes which can cause severe respiratory damage.

**Always work in areas with adequate ventilation to allow dissipation of vapors.

Ventilation:

Provide adequate cross air circulation.

Protective Gloves:

Gloves resistant to chemical penetration

Rubber or Neoprene Gloves.

Eye Protection:

Splash proof safety, Chemical Worker and Chemical Splash goggles.

Other Protective Equipment:

Eyewash Station, Emergency Shower, and use of barrier cream recommended.

Chemical Apron, Rubber foot covering, clean long sleeve and leg clothing.

Section X – Special Precautions

Handling and Storage Precautions:

Store in a cool dry place.

Keep away from open flames.

Store in tightly closed containers

Store away from food and beverages.

Wash thoroughly after handling.

Wash before eating, drinking, smoking, or using toilet.

Other Precautions:

Check all containers for leaks.

Avoid prolonged breathing or contact with skin.

Proprietary Ingredient – may be made available as provided in 29 CFR 1910.1200 (I).

Product contains Epoxy Resin that may contain ECH at 2-3 ppm.

Reportable under SARA Title III		CAS	Sections:		
Chemical	Percent		313	302	304
				TPQ (#)	RQ (#)
Epichlorohydrin	2-3 ppm	000106-89-8	Y		1000

AUTHORIZED SIGNATURE: _____ Chemist