

Material Safety Data Sheet

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

Date Prepared:
12-01-14

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Section I – Product

NAME: POLYBOND-5 – Part A
CLASS: Epoxy Resin

HMIS HAZARD CODES
Health: 2 (Moderate)
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
Diglycidyl Ether	100%	**Trade Secret**	n/a	n/a
Bisphenol-A Epoxy Resin				

Section III – Physical Data

Boiling Range: 201°C
Vapor Pressure: n/a mm@20°C
Specific Gravity: 1.2
Evaporation Rate: Slower (relative to n-butyl acetate)
Appearance and Odor: Viscous, black, mild odor.

Freezing Point: n/a
Density at 20°C: 1.2g/cm³
H₂O Solubility: Negligible (< 0.1%)
% Volatile by Volume: n/a %

Section IV – Fire and Explosion Hazard Data

Flash point: 254°C
(Method used) Pensky-Martens

Explosive Limits:	LEL	UEL (%V in air)
	n/a	n/a

Ignition Temperature: 215.0°C; this product is not self-igniting.

Flammability Classification

OSHA: Combustible Liquid – Class III B

DOT: Not regulated

Extinguishing Media:

Foam, Carbon Dioxide (CO₂), Dry Chemical, Sand

Special Fire Fighting Procedures:

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.

Unusual Fire and Explosion Hazards: None

Section V - Toxicological Information

---Ingredient---	OSHA	ACGIH	LD50 (mg/kg)		LC50 (ppm)	
Material Ingredient	PEL	TLV (twa)	(rat)	(rbt)	(rat)	
		Mg/m3	ppm	oral	dermal	inhal
Diglycidyl Ether	n/a	n/a	>9000	>10000	n/a	
Bisphenol-A Epoxy Resin						

Section VI - Health Hazard Data

Effects of Overexposure: Threshold Limit Values: See Section V.
Contact irritating to eyes.
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: High temperatures.
Incompatibility (Materials to Avoid Contact With): Amines, acids, water, hydroxyl, or active hydrogen compounds.
Hazardous Decomposition Products: Lead fume. Oxides of carbon and aldehydes.
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:
Dispose of in accordance with local regulations.

Section IX - Special Protection Information

Respiratory protection:
NESA/NIOSH approved respirator is highly recommended.
**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
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).

This product contains substances subject to the reporting requirements of SARA Section 313 of Title III of the Superfund Amendments and reauthorization Act of 1986 and 40 CFR Part 372:

AUTHORIZED SIGNATURE: R.A Rana _____ Chemist