

**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: Polybond 2090 – Part B  
CLASS: Polyamide Hardener

HMIS HAZARD CODES  
Health: 2 (Serious)  
Flammability: 0 (Minimal)  
Reactivity: 1 (Slight)

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
Polyamide Hardener	85%	*Trade Secret	0.8	0.0
Graded Sand	15%	*Trade Secret	n/a	n/a

**Section III – Physical Data**

Boiling Range: 604 to n/a °F  
Vapor Pressure: 0.0 mm@20°C  
Specific Gravity: 1.00  
Evaporation Rate: Slower  
(relative to n-butyl acetate)  
Appearance and Odor: Straw colored Liquid, Amine Odor.

Freezing Point: n/a  
Vapor Density: 6.53 (heavier than air)  
H<sub>2</sub>O Solubility: Negligible (< 0.1%)  
% Volatile by Volume: n/a %

**Section IV – Fire and Explosion Hazard Data**

Flash point: 280°F  
(Method used) Pensky-Martens

Explosive Limits:	LEL	UEL (%V in air)
	0.8	4.6

Flammability Classification

OSHA: Combustible Liquid – Class III B

DOT: Not regulated

Extinguishing Media:

Water Fog, Foam, Carbon Dioxide (CO<sub>2</sub>), 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 (twa)	(rat)	(rbt)	(rat)
		Mg/m3	ppm	oral	dermal
					inhal
Polyamide Hardener	n/a	n/a	n/a	n/a	n/a

### Section VI - Health Hazard Data

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

Vapors may irritate the eyes and respiratory tract.

Prolonged exposure may cause headache, dizziness, nausea, and vomiting.

Contact irritating to eyes. May cause blindness or permanent eye injury.

Corneal damage can occur and injury is slow to heal, if not treated.

Irritating to skin and may cause skin sensitization and other allergic responses.

May aggravate an existing an existing dermatitis.

Breathing vapor and/or mists may aggravate asthma and inflammatory or fibrotic pulmonary disease.

May cause coma or death. May cause severe skin burns

Harmful if swallowed or if absorbed through skin.

If liquid is heated, avoid breathing vapors.

May cause kidney and/or liver damage.

High vapor concentration may cause lung damage.

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. Call physician immediately.

Drink large quantities of water immediately.

Flush Eyes with water for 15 minutes, and get medical attention.

Never give anything by mouth to an unconscious person.

If swallowed, do NOT induce vomiting. Contact physician immediately.

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 acids. Aldehydes, ketones, and organic halides.

Epoxy resin under controlled conditions.

Hazardous Decomposition Products:

Oxides of carbon and nitrogen and ammonia fumes.

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.

Remove all sources of ignition. Wear protective clothing.

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.  
Airline hood or mask is highly recommended.  
Chemical 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.  
Exhaust at point of use. Mechanical in confined areas.

Protective Gloves:  
Gloves resistant to chemical penetration  
Butyl, Rubber or Neoprene Gloves.

Eye Protection:  
Splashproof 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:  
Overheating may cause container to rupture.  
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).

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