



Advanced Polymers for High Tech Applications

1. Material Identification

Product Name: PFP9112 Hardener
Emergency Phone: For product emergencies involving spill, leak, fire, exposure, or accident call CHEMTREC at (800) 424-9300. For all other inquiries call Precision Fiber Products, Inc at (408) 946-4040.

2. Composition

Exposure Limits

Table with 5 columns: Hazardous Components, CAS No., Percent, ACGIH TLV-TWA, OSHA PEL. Rows include Polyalkylamine, Poly amine, Filler, Accelerator, and Abbreviations: N.E. = Not Established.

3. Health Hazard Identification

Primary Routes of Exposure: Eyes: Yes, Skin: Yes, Inhalation: No
Eye Contact: May cause irritation.
Skin Contact: May cause irritation, allergic reactions, and sensitization.
Inhalation: None likely unless heated to high temperatures
Ingestion: Effects are not known.
Other: Preexisting skin and eye disorders may be aggravated by exposure to this product.

4. First Aid Measures

Eyes: Flush eyes thoroughly with water for 20 minutes while holding eyelids open. Seek medical attention.
Skin: Promptly wash with soap & water. Promptly remove contaminated clothing, wash before reuse. Destroy contaminated leather and absorbent shoes.
Inhalation: Remove to fresh air, and provide oxygen or artificial respiration if needed. Obtain medical attention.
Ingestion: If conscious, give a large quantities of water or milk, induce vomiting. Call a Physician.

5. Fire Fighting Measures

Flammable Properties

Flash Point: > 350°F, closed cup
Explosive Limits: Not determined
Auto - Ignition Temperature: Not determined
Hazardous Decomposition Products: carbon mono oxide and Carbon Dioxide
Decomposition & combustion products may be toxic

Extinguishing Media and Fire Fighting Instructions

Use self contained breathing apparatus
Extinguishing Media: Use carbon dioxide, dry chemical, or an appropriate foam.



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6. Accidental Release Measures

For small spills: Wipe up, or absorb with vermiculite or other absorbent material. Collect waste in sealed containers. Scrub area with soapy water and rinse. Prevents rinses from entering drains or other waterways. Spilled material and water rinses are classified as chemical waste, and must be disposed of according to current local, state, and federal regulations.

For large spills: Dike area to contain spilled material and to runoff into drains, sewers, and other waterways. Shovel or pump to drum or salvage tank. Absorbed residual material with sand, vermiculite, or other absorbent material. Scrape or shovel absorbed waste and absorbent into containers. Scrub area with soapy water and rinse. Prevents rinse from entering drains or other waterways.

7. Handling and Storage

Store in cool, dry area in closed containers. Wear protective eye-wear, chemical-resistant gloves, and other protective clothing as appropriate.

8. Exposure Controls and Personal Protection

Engineering / Ventilation Controls: General ventilation may be acceptable under most conditions, although local ventilation is required to control exposure whenever vapors, mists, or dusts are generated. Eye wash stations should be readily available.

Respiratory Protection: When local ventilation is unavailable and airborne limits are exceeded, a NIOSH-approved respirator for organic vapors, a supplied-air respirator, or a self-contained breathing apparatus is required.

Skin Protection: Impervious gloves and protective clothing should be worn as necessary.

Eye Protection: Chemical splash goggles or safety glasses with side shields should be worn as appropriate.

9. Stability and Reactivity

Chemical Stability: Stable under normal conditions and use.

Conditions and Materials to Avoid: Strong oxidizers, amines, amides, strong Lewis or mineral acids, thiosulfates, carboxylic acids, mercaptans. Reaction with curing agents is exothermic; Smoke or fumes may be evolved if heat of reaction becomes excessive due to high curing temperature or curing of large masses of material. Storage in open containers, expose to heat and/or open flame.

Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide

Hazardous Polymerization: Will not occur.

10. Physical and Chemical Properties

Table with 4 columns: Property Name, Value 1, Property Name, Value 2. Includes Appearance / State, Odor, pH, Vap. Pressure, Vap. Density, Boiling Point, Freezing Point, Specific Gravity, Solubility in Water.

11. Disposal Considerations

Keep out of surface waters, sewers, and waterways entering or leading to surface waters. Notify authorities if any exposure to the environment occurs or is likely to occur. Utilize an appropriate disposal facility, in compliance with applicable federal, state, and local environmental control regulations.



**13. Transportation Information**

**DOT/IATA Proper Shipping Name:** Amines, Liquid, Corrosive, N.O.S.  
**Hazard Class:** 8      **Packing Group:** III      **ID:** UN2735      **Label:** Corrosive

For UN2735 (Corrosive, amine), Hazard Class 8(corrosive materials), Packing group III, not hazardous under 4.0 liters per outer package.

**14. Regulatory Information**

**TSCA**

The chemical components of this product are included in the TSCA Chemical Substance Inventory, as required.

**SARA TITLE III**

**Section 313 – Toxic Chemicals**

Pursuant to Section 313, this product does not contain any chemicals in a concentration equal to or greater than the de minimis level.

**Section 311/312 – Hazard Categories**

Fire Hazard:	No	Immediate (Acute) Health Hazard:	Yes
Reactivity Hazard:	No	Delayed (Chronic) Health Hazard:	No
Sudden Release of Pressure Hazard:	No		

<b>NFPA Hazards:</b>	Health: 2	Flammability: 1	Reactivity: 0
<b>HMIS Hazards:</b>	Health: 2	Flammability: 1	Reactivity: 0

Precision Fiber Products, Inc urges each customer or recipient of this MSDS to study it carefully in order to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and/or fire prevention, as necessary to use and understand the data contained in this MSDS.

To promote safe handling, customers and recipients should: 1 –notify their employees, agents, contractors, and others whom they know or suspect will use this material or the information in this MSDS and any other information regarding hazards or safety; 2 –furnish this same information to each of their customers for the product; and 3 –request their customers to notify their employees, customers and other users of the product of this information.

The information contained herein is based on the data available to Precision Fiber Products, Inc, and is believed to be correct. However, Precision Fiber Products, Inc makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Precision Fiber Products, Inc assumes no responsibility for injury from the use of the product described herein.