



Advanced Polymers for High Tech Applications

1. Material Identification

Product Name: PFP 9001-MT 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

Hazardous Components	CAS No.	Percent	Exposure Limits	
			ACGIH TLV-TWA	OSHA PEL
Aliphatic Amine Mixture Abbreviations: N.E. = Not Established	Proprietary	< 100	N.E.	N.E.

3. Health Hazard Identification

Primary Routes of Exposure: Eyes: Yes Skin: Yes Inhalation: Yes

Eye Contact: Corrosive. May cause burns and permanent injury including blindness. May cause lacrimation, conjunctivitis, and corneal edema when absorbed into the tissue of the eye from the atmosphere.

Skin Contact: Corrosive. May cause dermatitis, sensitization, and deep burns. May be harmful or fatal if absorbed through the skin.

Inhalation: May cause damage and severe irritation.

Ingestion: Corrosive. May cause severe gastric disturbances and possibly fatal damage.

Other: Asthma, chronic respiratory diseases, eye diseases, and skin disorders may be aggravated by exposure to this product.

4. First Aid Measures

Eyes: Flush eyes thoroughly with water, for at least 15 minutes, while holding eyelids open. Seek immediate medical attention.

Skin: Wipe excess from skin, and flush the affected area with water for at least 15 minutes. Do NOT apply greases or ointments. Wash contaminated clothing thoroughly before reuse. Obtain immediate medical attention.

Inhalation: Remove to fresh air, and provide oxygen or artificial respiration if needed. Obtain immediate medical attention.

Ingestion: Do NOT induce vomiting. Give 3 to 4 glasses of water or milk unless the victim is drowsy, convulsing, or unconscious. Obtain immediate medical attention.

5. Fire Fighting Measures

Flammable Properties

Flash Point: > 200°F, estimated

Explosive Limits: Not determined

Auto – Ignition Temperature: Not determined

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, nitric acid, ammonia, and nitrosamines.

Extinguishing Media and Fire Fighting Instructions

When sufficiently large quantities are present, firefighters should be equipped with full bunker gear, including a positive pressure, NIOSH approved, self-contained breathing apparatus.

Extinguishing Media: Use water or "alcohol" foam.



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6. Accidental Release Measures

Ventilate the spill area, and evacuate if necessary. Shut off the source of the leak if it is safe to do so. Remove all ignition sources. Dike and Contain large spills. Absorb with a suitable material, and dispose of properly.

Clean-up personnel should use adequate protective equipment, including respiratory protection.

7. Handling and Storage

Store in a cool, dry place, away from ignition sources and high temperatures. Avoid contact with incompatible materials. Nitrosamines, many of which are known to be potent carcinogens, may be formed when this product comes in contact with nitrous acid, nitrites, or concentrated nitrous oxides.

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.

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: Keep away from ignition sources and high temperatures. Reacts with acids, oxidizing agents, metals that are prone to corrosion, and sodium or calcium hypochlorite. Nitrosamines, many of which are known to be potent carcinogens, may be formed when this product comes in contact with nitrous acid, nitrites, or concentrated nitrous oxides.

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides, nitric acid, ammonia, and nitrosamines.

Hazardous Polymerization: Will not occur.

10. Physical and Chemical Properties

Appearance / State: Dark-colored liquid

Odor: Not determined

Specific Gravity: Not determined

Solubility in Water: Partial

Boiling Point:

Freezing Point:

Vap. Pressure (mmHG):

Vap. Density (air = 1):

Not determined

Not determined

Not determined

Not determined

11. Toxicological Information

This product is not known to have undergone toxicological testing.

12. 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.



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13. Transportation Information

DOT/IATA Proper Shipping Name: Amines, Liquid, Corrosive, N.O.S.

Hazard Class: 8

Packing Group: III

ID: UN2735

ERG #: 153

Label: Corrosive

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		

NFPA Hazards:	Health: 2	Flammability: 1	Reactivity: 0
HMIS Hazards:	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.