

**Material Safety Data Sheet**

Product Name: PFP 353ND, Part A
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.
***HMIS:** Health - 2 Fire - 1 Reactivity - 0
Carcinogen: NTP (No) IARC (No) OSHA (No)

* HMIS CODE ratings are estimated by Epoxy Technology.

1. Identification & Physical Data

Percent Volatile:	N/A	Vapor Pressure:	N/A
Boiling Point:	N/A	Solubility in Water:	Low
Vapor Density:	>Air	Evaporation Rate:	N/A
Appearance:	Clear liquid	Specific Gravity:	1.2

2. Hazardous Ingredients

Hazardous Components	CAS No.	Percent
Epoxy Phenol Novolac	28064-14-4	75-100%

Toxicity Data

Acute Oral Effects (LD50): Rat > 10,000 mg/kg
Acute Dermal Toxicity (LD50): Rabbit 3,000 mg
Inhalation Toxicity (LD50): LCLO = 1.7 mg

3. Fire & Explosive Data

Flash Point: >200°F
Extinguishing Media: Dry chemical, foam, carbon dioxide.
Unusual Fire & Explosion Hazards: Avoid fumes liberated by heat.
Special Fire Fighting Procedures: Wear self contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

4. Reactivity Data

Stability: Do not exceed 25 grams during mixing and curing.
Hazardous Polymerization: Will not occur if mix < 25 grams.
Conditions to Avoid: Excessive heat.
Materials to Avoid: Strong oxidizing and reducing agents.
Hazardous Decomposition Products: Fumes produced when heated to decomposition may include carbon monoxide, and carbon dioxide.

**Material Safety Data Sheet****5. Health Hazard Data****Effects of Overexposure**

Ingestion:	May be moderately toxic. Ingestion can severely upset the gastric system.
Inhalation:	Hot vapors can cause headaches, nausea, dizziness, and respiratory irritation.
Skin Contact:	Can cause dermatitis.
Eye Contact:	Irritating to the eyes. Can cause injury.
Chronic/Acute Effects of Exposure:	Can cause dermatitis and sensitization.

Effects of Overexposure

Eye Contact:	In case of eye contact, flush well with water. Get medical attention immediately.
Skin Contact:	In case of skin contact, clean with soap and water. Do not use solvents. Remove contaminated clothing.
Ingestion:	Get medical attention immediately.
Inhalation:	Remove employee to fresh air. If discomfort persists, get medical attention.

6. Spill or Leak Procedures

Steps to be taken in case material is spilled:	Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Absorb spillage with inert material and dispose.
Waste Disposal Method:	Incinerate or use hazardous waste treatment procedures that are in accordance with federal, state and local regulations.

7. Special Protection Information

Respiratory Protection:	Wear an approved respirator whenever high level exposure to vapors or mist is anticipated.
Ventilation:	Local exhaust recommended for exposure control.
Protective Gloves:	Impervious gloves - neoprene or equivalent. A combination of barrier cream and gloves is recommended.
Eye Protection:	Chemical splash goggles recommended.
Other Protective Equipment:	For operations where contact can occur, use a face shield and impervious apron. A safety shower and eye wash facility should be available.

8. Special Precautions

Avoid contact with skin and eyes. Avoid breathing vapors. Keep containers closed when not in use. Remove all contaminated clothing immediately and wash. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential - protective skin oils can be dissolved by solvents.

**Material Safety Data Sheet**

Product Name: PFP 353ND, Part B
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.
***HMIS:** Health - 3 Fire - 1 Reactivity - 0
Carcinogen: NTP (No) IARC (No) OSHA (No)

* HMIS CODE ratings are estimated by Epoxy Technology.

1. Identification & Physical Data

Percent Volatile:	N/A	Vapor Pressure:	N/A
Boiling Point:	N/A	Solubility in Water:	N/A
Vapor Density:	>Air	Evaporation Rate:	<BUAC
Appearance:	Amber liquid	Specific Gravity:	1.02
Odor:	Mild		

2. Hazardous Ingredients

Hazardous Components	CAS No.	Percent	ACGIH TWA	TLV	OSHA PEL
Imidazole	288-32-4	25-50%	N.E.	2mg/m ³ (Established by Supplier)	N.E.

Toxicity Data

Eyes & Skin (Rabbit) = Severely Irritating, Corrosive.
Oral LD50 (Rat) = 965 mg/kg

3. Fire & Explosive Data

Flash Point: >200°F
Extinguishing Media: Dry chemical, foam, carbon dioxide.
Unusual Fire & Explosion Hazards: Avoid fumes liberated by heat.
Special Fire Fighting Procedures: Wear self contained breathing apparatus and complete personal protective equipment. Remove all ignition sources. Use a water spray to cool fire exposed containers.

4. Reactivity Data

Stability: Do not exceed 25 grams during mixing and curing.
Hazardous Polymerization: Will not occur if mix < 25 grams.
Conditions to Avoid: Excessive heat.
Materials to Avoid: Strong oxidizing and reducing agents.
Hazardous Decomposition Products: Fumes produced when heated to decomposition may include oxides of nitrogen, carbon monoxide, and carbon dioxide.

**Material Safety Data Sheet****5. Health Hazard Data****Effects of Overexposure**

Ingestion:	Ingestion can severely upset the gastric system.
Inhalation:	Hot vapors can cause headaches, nausea, dizziness, and respiratory irritation, if inhaled
Skin Contact:	Mildly irritating in rabbit dermal irritation studies. May cause dermatitis and skin sensitization in some individuals.
Eye Contact:	Causes eye burns in rabbit irritation studies. Irritating to the eyes. Can cause injury.
Chronic/Acute Effects of Exposure:	Repeated and/or prolonged exposures may result in: adverse respiratory effects(such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis corneal damage), adverse eye effects (such as rash, irritation or corrosion).

Effects of Overexposure

Eye Contact:	In case of eye contact, flush well with water for at least 15 minutes. Get medical attention immediately.
Skin Contact:	In case of skin contact, clean with soap and water. Do not use solvents. Remove contaminated clothing.
Ingestion:	Get medical attention immediately.
Inhalation:	Remove employee to fresh air. If discomfort persists, get medical attention.

6. Spill or Leak Procedures

Steps to be taken in case material is spilled:	Eliminate ignition sources. Use eye and skin protection. Place leaking containers in a well ventilated area. Absorb spillage with inert material and dispose.
Waste Disposal Method:	Incinerate or use hazardous waste treatment procedures that are in accordance with federal, state and local regulations.

7. Special Protection Information

Respiratory Protection:	Wear a NOISH approved respirator whenever high level exposure to vapors or mist is anticipated.
Ventilation:	Locale exhaust recommended for exposure control.
Protective Gloves:	Impervious gloves - neoprene or equivalent. A combination of barrier cream and gloves is recommended.
Eye Protection:	Chemical splash goggles recommended.
Other Protective Equipment:	For operations where contact can occur, use a face shield and impervious apron. A safety shower and eye wash facility should be available.

Special Precautions

Avoid contact with skin and eyes. Avoid breathing vapors. Keep containers closed when not in use. Remove all contaminated clothing immediately and wash. Wash skin thoroughly with soap and water after handling. Solvents should not be used to clean skin because of increased penetration potential - protective skin oils can be dissolved by solvents.