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Material Safety Data Sheet

1. PRODUCT IDENTIFICATION

Product Name: 84109 PERMA POXY 4 MIN MULTI-METAL EPOXY 25ML SYR
Item No: PTX202005B
Product Type: Epoxy resin

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	40-50	Not established	Not established
BARIUM SULFATE 7727-43-7	30 -40	10 mg/m ³ ; total dust	5 mg/m ³ resp. dust
NEPHELINE SYENITE 37244-96-5	15-25	10 mg/m ³ TWA inhal.	5 mg/m ³ TWA respir.
IRON OXIDE BLACK 1317-61-9	1-10	5 mg/m ³	10 mg/m ³
ELASTOMER MODIFIED DIGLYCIDYL ETHER 68909-14-8	1-10	Not Listed	Not Listed
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	1-10	Not Listed	10 mg/m ³ total dust

3. HAZARDS IDENTIFICATION

Toxicity: May cause eye and skin irritation. May cause skin sensitization. Exposure to vapors or mist may result in irritation of the respiratory tract. Repeated and prolonged inhalation of iron oxide dust may cause a benign pneumoconiosis called siderosis. This is not associated with pulmonary fibrosis unless there is concurrent exposure to other fibrosis-producing materials. When heated to temperatures above 300 degrees F. in the presence of air, this product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard and a known skin and respiratory sensitizer. Safe handling conditions may be maintained by keeping vapor concentrations below the OSHA permissible limit for formaldehyde.

Primary Routes of Entry: Eye and skin contact, ingestion, inhalation.

Signs and Symptoms of Exposure: May cause skin irritation. Repeated skin contact may cause allergic skin reactions. Slightly irritating to eyes, but does not injure eye tissue. Inhalation overexposure may cause irritation, coughing and flu-like symptoms.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	40-50			Bisphenol A; Group 3, Vol. 71, pg 1285; 1999
BARIUM SULFATE 7727-43-7	30 -40		Group A4 - Not classifiable	

Medical Conditions Recognized as Being Aggravated by Exposure: May aggravate preexisting dermatitis. Persons with respiratory problems such as emphysema and asthma should avoid inhalation.

4. FIRST AID MEASURES

Ingestion: If swallowed dilute with 1-2 glasses of milk or water and then induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin Contact: Remove contaminated clothing. Wash area with soap and water. If irritation persists, seek medical attention.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

5. FIRE FIGHTING MEASURES

Flash Point (°F/C):	485 degrees F. Method: PMCC
Recommended Extinguishing Media:	Carbon Dioxide, Dry Chemicals, Foam.
Special Fire-Fighting Procedures:	Firefighters should wear self-contained breathing apparatus. Use water spray to cool exposed containers.
Hazardous Products Formed by Fire or Thermal Decomposition:	Carbon monoxide, Aldehydes, Phenolics
Unusual Fire/Explosion Hazards:	None
Lower Explosive Limit:	Not determined.
Upper Explosive Limit:	Not determined.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures:	Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.
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7. HANDLING AND STORAGE

Storage:	Store away from heat. Store in a cool, dry area.
Handling:	Avoid contact with vapors from heated material. Avoid contact with skin and eyes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses or goggles.
Skin:	Chemical resistant gloves. Launder contaminated clothing before reuse.
Ventilation:	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product.
Respiratory Protection:	An approved respirator (i.e. NIOSH, etc.) should be worn when exposures are expected to exceed the applicable limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Black liquid
Odor:	Epoxy odor.
Boiling Point (°F):	Greater than 300 degrees F.
pH:	Does not apply
Solubility in Water:	Negligible
Specific Gravity:	Not determined
VOC Content(Wt.%):	None
Vapor Pressure:	Not applicable
Vapor Density (Air=1):	Heavier than air
Evaporation Rate:	<1 (butyl acetate = 1)

10. STABILITY AND REACTIVITY

Chemical Stability:	STABLE
Hazardous Polymerization:	Will autopolymerize at very high temperatures.
Incompatibilities:	Acids, Avoid contact with bases and strong oxidizers. Amines.
Conditions to Avoid:	Excess heating above 150 degrees F. over long periods of time degrades the resin.
Hazardous Products Formed by Fire or Thermal Decomposition:	Carbon monoxide, Aldehydes, Phenolics

11. TOXICOLOGICAL INFORMATION

See Section 3

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal: Disposal should be made in accordance with federal, state and local regulations.
US EPA Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49CFR 172)

Domestic Ground Transport

DOT Shipping Name: Unrestricted
Hazard Class: NONE
UN/ID Number: None
Marine Pollutant: None

IATA

Proper Shipping Name: Unrestricted
Class or Division: None
UN/NA Number: None

IMDG

Proper Shipping: Unrestricted
Hazard Class: None
UN Number: None

15. REGULATORY INFORMATION

SARA 313 Chemicals: The following component(s) is listed as a SARA Section 313 Toxic Chemical.

SARA 313 Information

NONE

CALIFORNIA PROP 65:

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA Inventory Status:

Listed on Inventory: YES All components of this product are listed (or exempt) on the EPA TSCA inventory.

16. OTHER INFORMATION

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

Estimated HMIS Classification: HEALTH 1, FLAMMABILITY 1, PHYSICAL HAZARD 0

NFPA is a registered trademark of the National Fire Protection Assn.

HMIS is a registered trademark of the National Paint and Coatings Assn.

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