

Permatex, Inc.  
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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** 84104 PERMA POXY 90 MIN GEN PURPOSE EPOXY 25ML PART 1  
**Item No:** 202002C  
**Product Type:** Epoxy resin

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	30-60	Not Listed	Not Listed
BISPHENOL F/EPICHLOROHYDRIN EPOXY BASED RESIN 28064-14-4	30-60	Not established	Not established

### 3. HAZARDS IDENTIFICATION

**Toxicity:** May cause eye and skin irritation. May cause skin sensitization.  
**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation.  
**Signs and Symptoms of Exposure:** Based on testing, this product is not likely to be an inhalation hazard and is considered to have a low order of acute toxicity. May cause skin irritation. Repeated skin contact may cause allergic skin reactions. Slightly irritating to eyes, but does not injure eye tissue.

**Medical Conditions Recognized as Being Aggravated by Exposure:** Preexisting eye, skin and respiratory disorders may be aggravated by overexposure to this product.

### 4. FIRST AID MEASURES

**Ingestion:** No harmful effects are expected. See physician if irritation develops.  
**Inhalation:** This product has a very low vapor pressure. Vapor inhalation under ambient conditions is normally not a problem. If overcome by vapor, remove from exposure and seek medical attention if distress or irritation persist.  
**Skin Contact:** Remove contaminated clothing. Wash area with soap and water. If irritation persists, seek medical attention.  
**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

### 5. FIRE FIGHTING MEASURES

**Flash Point (°F/C):** 480F 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, Acid vapors.  
**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.

### 7. HANDLING AND STORAGE

**Storage:** Store away from heat.

**Handling:** Avoid contact with vapors from heated material. Avoid contact with skin and eyes. Wash thoroughly after handling. Discard contaminated leather gloves and shoes.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:** Safety glasses or goggles.  
**Skin:** Neoprene, rubber or butyl rubber gloves Launder contaminated clothing before reuse.  
**Ventilation:** General ventilation is usually adequate.  
**Respiratory Protection:** Not normally necessary.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Colorless to light yellow liquid  
**Odor:** Epoxy odor.  
**Boiling Point (°F):** >500F  
**pH:** Does not apply  
**Solubility in Water:** Negligible  
**Specific Gravity:** 1.2  
**VOC Content(Wt.%):** None  
**Vapor Pressure:** 0.03 @ 77C  
**Vapor Density (Air=1):** Not Determined  
**Evaporation Rate:** Not Determined

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:** STABLE  
**Hazardous Polymerization:** WILL NOT OCCUR  
**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, Acid vapors.

## **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.

**Product name:** 84104 PERMA POXY 90 MIN GEN  
PURPOSE EPOXY 25ML PART 1

**Item** 202002C

**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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**Revision Date:** 05/28/2003  
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## Material Safety Data Sheet

### 1. PRODUCT IDENTIFICATION

**Product Name:** 84104 PERMA POXY 90 MIN GEN PURPOSE EPOXY 25ML SY  
**Item No:** PTX203004C  
**Product Type:** Curing agent

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percent	ACGIH 8 Hr. TWA:	OSHA 8 Hr. TWA:
2-PIPERAZINE-1-YLETHYLAMINE 140-31-8	25-35	Not Listed	Not Listed
NONYLPHENOL 25154-52-3	10-20	Not Listed	Not Listed
3-AMINOMETHYL-3,5,5- TRIMETHYLCYCLOHEXYLAMINE 2855-13-2	10-20	Not Listed	Not Listed
BENZYL ALCOHOL 100-51-6	5-15	Not Listed	Not Listed
2,4,6- TRIS(DIMETHYLAMINOMETHYL)P HENOL 90-72-2	1-10	Not Listed	Not Listed

### 3. HAZARDS IDENTIFICATION

**Toxicity:** Severe eye irritant. Causes severe respiratory irritation. May cause severe skin irritation.  
**Primary Routes of Entry:** Eye and skin contact, ingestion, inhalation.  
**Signs and Symptoms of Exposure:** Can cause severe and painful burns on contact to eyes, skin and if taken internally. May be injurious to eyes, skin, mucous membranes and lungs. Repeated skin contact may cause allergic skin reactions.

Ingredients	Percent	NTP:	ACGIH Carcinogens	IARC:
BENZYL ALCOHOL 100-51-6	5-15	male rat-no evidence; female rat-no evidence; male mice- no evidence; female mice-no evidence		

**Medical Conditions Recognized as Being Aggravated by Exposure:** Persons with respiratory problems such as emphysema and asthma should avoid inhalation. Preexisting skin disorders.

### 4. FIRST AID MEASURES

**Ingestion:** If swallowed, give at least 3-4 glasses of water, but do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Get medical attention.  
**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 product and immediately flush affected area with water for 15 minutes. Remove contaminated clothing and shoes. Destroy contaminated leather apparel. Cover the affected area with a sterile dressing and seek medical care. Do not apply greases or ointments. Launder contaminated clothes prior to reuse.  
**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):** Greater than 212 degrees F.  
**Recommended Extinguishing Media:** Water fog, carbon dioxide, foam, dry chemical.  
**Special Fire-Fighting Procedures:** Firefighters should wear self-contained breathing apparatus.  
**Hazardous Products Formed by Fire or Thermal Decomposition:** Oxides of nitrogen, Ammonia

**Unusual Fire/Explosion Hazards:**

Irritating or toxic gases or fumes may be generated by thermal decomposition or combustion.

**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.

## **7. HANDLING AND STORAGE**

**Storage:**

Keep away from oxidizers. Store in a cool, dry area.

**Handling:**

Avoid contact with skin and eyes. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Discard contaminated leather gloves and shoes. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Eyes:**

Chemical goggles; also wear a face shield if splashing hazard exists.

**Skin:**

Neoprene or nitrile gloves recommended.

**Ventilation:**

Provide adequate ventilation

**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:**

Amber liquid

**Odor:**

Irritating odor.

**Boiling Point (°F):**

Greater than 350 degrees F.

**pH:**

Alkaline

**Solubility in Water:**

Moderate

**Specific Gravity:**

Not Determined

**VOC Content(Wt.%):**

Not determined

**Vapor Pressure:**

Not Determined

**Vapor Density (Air=1):**

Heavier than air

**Evaporation Rate:**

<1 (butyl acetate = 1)

## **10. STABILITY AND REACTIVITY**

**Chemical Stability:**

STABLE

**Hazardous Polymerization:**

WILL NOT OCCUR

**Incompatibilities:**

Strong oxidizers, acids, alkalines

**Conditions to Avoid:**

None anticipated

**Hazardous Products Formed by Fire or Thermal**

Oxides of nitrogen, Ammonia

**Decomposition:**

## **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:**

D002 as per 40CFR 261.22

## **14. TRANSPORTATION INFORMATION**

DOT (49CFR 172)

### **Domestic Ground Transport**

**DOT Shipping Name:**

CONSUMER COMMODITY

**Hazard Class:**

ORM-D

**UN/ID Number:**

None Known

**Marine Pollutant:**

Nonylphenol

**Product name:** 84104 PERMA POXY 90 MIN GEN  
PURPOSE EPOXY 25ML SY

**Item** PTX203004C

**IATA**

**Proper Shipping Name:** Do Not Ship By Air  
**Class or Division:** Not applicable  
**UN/NA Number:** Not applicable

**IMDG**

**Proper Shipping:** Amines, liquid, corrosive, n.o.s., (Contains Aliphatic amines), Limited Quantity  
**Hazard Class:** Class 8 PGIII  
**UN Number:** UN 2735

**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:**

No California Prop 65 chemicals are known to be present.

**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 3, FLAMMABILITY 1, REACTIVITY 0

**Estimated HMIS Classification:** HEALTH 3, FLAMMABILITY 1, PHYSICAL HAZARD 0

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**Revision** 2

**Number:**

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