

ITW Permatex Canada  
35 Brownridge Road, Unit 1  
Halton Hills, ON Canada L7G 0C6  
Telephone: (800) 924-6994  
Urgence: 800-255-3924 (ChemTel)

## Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

### I. PRODUCT IDENTIFICATION

Product Name: 84111 PC PERMA POXY 5 MIN GENERAL PURPOSE EPOXY (HARDENER)  
Item No: PTX203002G  
Product Type: Epoxy hardener

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
MERCAPTAN AMINE BLEND TSRN 679485-6533P	100	>2,000 mg/kg	not available	

### III. PHYSICAL DATA

Physical State/Appearance: Clear liquid  
Odour & Odour Threshold: Mercaptan odour  
Specific Gravity: 1.13  
Evaporation Rate: Not determined  
Vapour Pressure: <1 mm Hg @ 20°C  
Vapour Density: Heavier than air  
Freezing Point: Not determined  
pH: 9.5 (5% slurry in water)  
Octanol/Water Coefficient: Not determined  
Boiling Point: Not determined

### IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon dioxide, Dry chemical, Foam  
Hazardous Combustion Products: Oxides of carbon, Oxides of nitrogen, Oxides of sulfur  
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected  
Conditions of Flammability: During a fire, irritating and toxic gases may be generated during combustion or decomposition.  
Flash Point/Range: >95°C PMCC.  
Autoignition Temperature: Not determined  
Upper Explosive Limit: Not determined  
Lower Explosive Limit: Not determined

### V. REACTIVITY DATA

Conditions Causing Chemical Instability: Stable under normal conditions of use  
Materials to avoid: Strong oxidizers  
Conditions of Reactivity: High temperatures.  
Hazardous Decomposition Products: Carbon oxides, Oxides of nitrogen, Oxides of sulfur

### VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation  
Existing Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory disorders  
Toxicity Information: (See Effects of Acute Exposure to Product)  
Effects of Acute Exposure: Inhaling may cause mild irritation to the nose, throat and respiratory tract. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea. May cause allergic skin reactions and sensitization. May cause pain, redness or swelling of the eyes and excessive blinking and tear production.  
Effects of Chronic Exposure: Prolonged or repeated skin contact may cause sensitization, with itching, swelling or rashes on later exposure. Overexposure may cause delayed lung injury and chemical pneumonia.  
Irritancy of Product: Contact with eyes causes severe irritation and pain. Contact with skin causes mild irritation and discomfort. Inhalation of mists may cause irritation in the respiratory tract. May cause nausea, vomiting, pain and stomach upset.  
Sensitization to Product: (See Effects of Acute Exposure to Product)  
Carcinogenicity: (See Effects of Chronic Exposure to Product)

## **VI. HAZARDS IDENTIFICATION**

**Reproductive Toxicity:** (See Effects of Chronic Exposure to Product)  
**Teratogenicity:** (See Effects of Chronic Exposure to Product)  
**Mutagenicity:** (See Effects of Chronic Exposure to Product)  
**Toxicologically Synergistic Products:** None known  
**WHMIS Hazard Class:** D2B TOXIC MATERIALS

## **VII. PREVENTATIVE MEASURES**

### **Personal Protection**

**Eyes:** Safety glasses.  
**Skin:** Neoprene or nitrile gloves recommended. Wash contaminated clothing before re-use.  
**Ventilation:** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  
**Engineering Controls:** In case of insufficient ventilation, wear an organic vapor respirator  
**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.  
**Protection of Man and Environment:** Follow Canadian and local regulations for disposal.  
**Handling Procedures and Equipment:** Avoid breathing vapours. Wear all appropriate personal protective equipment. Use good personal hygiene. Avoid smoking, eating or drinking during use. Wash with soap and water after handling.  
**Special Handling Information:** Store in a cool, dry, well-ventilated area. Keep away from children.

## **VIII. FIRST AID MEASURES**

**Ingestion:** If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.  
**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.  
**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.  
**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.

## **IX. SHIPPING INFORMATION**

### **Canadian Transportation of Dangerous Goods**

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN/ID No:** None

### **IATA (Air)**

**Proper Shipping Name:** Aviation regulated liquid, n.o.s., (mercaptan amine blend), Limited Quantity  
**Class or Division:** Class 9  
**UN/ID Number:** UN 3334

### **IMDG (Vessel)**

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN Number:** None

## **X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0  
(HMIS is a registered trademark of the National Paint and Coatings Association)

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 1, REACTIVITY 0  
(NFPA is a registered trademark of the National Fire Protection Association)

**Prepared By:** Denise Boyd, Manager-Environmental, Health & Safety

**Company:** ITW Permatex Canada. 35 Brownridge Rd. Unit 1, Halton Hills, ON L76 0C6

**Telephone No.:** 1-800-924-6994

**Revision Date:** April 04, 2014

**Revision Number:** 4

ITW Permatex Canada  
35 Brownridge Road, Unit 1  
Halton Hills, ON Canada L7G 0C6  
Telephone: (800) 924-6994  
Urgence: 800-255-3924 (ChemTel)

## Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

### I. PRODUCT IDENTIFICATION

Product Name: 84111 PERMA POXY 5 MIN GENERAL PURPOSE EPOXY (RESIN)  
Item No: 202002G  
Product Type: Epoxy resin

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
EPOXY RESIN (EPICHLOROHYDRIN, BISPHENOL A) 25085-99-8	100	oral rat >15,000 mg/kg	not available	

### III. PHYSICAL DATA

Physical State/Appearance: Clear liquid  
Odour & Odour Threshold: Slight odour  
Specific Gravity: 1.17  
Evaporation Rate: <1 (Butyl acetate = 1)  
Vapour Pressure: <0.1 mm Hg  
Vapour Density: >1 (air =1)  
Freezing Point: Not determined  
pH: Neutral  
Octanol/Water Coefficient: Not determined  
Boiling Point: >260 degrees C.

### IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.  
Hazardous Combustion Products: Carbon monoxide, aldehydes, acids and other organic substances may be formed during combustion or elevated temperatures (260 degrees C.)  
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected  
Conditions of Flammability: Heating above 150°C in the presence of air may cause slow oxidative decomposition and above 260°C may cause polymerization.  
Flash Point/Range: >200°C .  
Autoignition Temperature: Not determined  
Upper Explosive Limit: Not determined  
Lower Explosive Limit: Not determined

### V. REACTIVITY DATA

Conditions Causing Chemical Instability: Stable under normal conditions of use  
Materials to avoid: Strong Lewis or mineral acids, strong oxidizing agents, strong mineral and organic bases (especially primary and secondary aliphatic amines)  
Conditions of Reactivity: High temperatures.  
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, Aldehydes, Organic acid vapors

### VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye, skin  
Existing Conditions Aggravated by Exposure: Preexisting eye, skin and respiratory disorders  
Toxicity Information: (See Effects of Acute Exposure to Product)  
Effects of Acute Exposure: May cause pain, redness or swelling of the eyes and excessive blinking and tear production. May cause skin sensitization. May cause nausea, vomiting, pain and stomach upset (i.e., diarrhea).  
Effects of Chronic Exposure: May cause an allergic skin reaction.  
Irritancy of Product: See (Effects of Acute Exposure to Product)  
Sensitization to Product: (See Effects of Acute Exposure to Product)  
Carcinogenicity: (See Effects of Chronic Exposure to Product)

## **VI. HAZARDS IDENTIFICATION**

**Reproductive Toxicity:** (See Effects of Chronic Exposure to Product)  
**Teratogenicity:** (See Effects of Chronic Exposure to Product)  
**Mutagenicity:** (See Effects of Chronic Exposure to Product)  
**Toxicologically Synergistic Products:** None known  
**WHMIS Hazard Class:** D2B TOXIC MATERIALS

## **VII. PREVENTATIVE MEASURES**

### **Personal Protection**

**Eyes:** Safety glasses  
**Skin:** Neoprene or nitrile gloves recommended.  
**Ventilation:** Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.  
**Engineering Controls:** In case of insufficient ventilation, wear an organic vapor respirator  
**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.  
**Protection of Man and Environment:** Follow Canadian and local regulations for disposal.  
**Handling Procedures and Equipment:** Avoid breathing vapours. Use good personal hygiene. Avoid smoking, eating or drinking during use. Wash with soap and water after handling.  
**Special Handling Information:** Store in a cool, dry, well-ventilated area. Avoid contact with skin and eyes.

## **VIII. FIRST AID MEASURES**

**Ingestion:** If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.  
**Inhalation:** Move to fresh air in case of accidental inhalation of vapors. Obtain medical attention.  
**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.  
**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.

## **IX. SHIPPING INFORMATION**

### **Canadian Transportation of Dangerous Goods**

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN/ID No:** None

### **IATA (Air)**

**Proper Shipping Name:** Not regulated  
**Class or Division:** None  
**UN/ID Number:** None

### **IMDG (Vessel)**

**Proper Shipping Name:** Not regulated  
**Hazard Class:** None  
**UN Number:** None

## **X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 1, PHYSICAL HAZARD 0  
(HMIS is a registered trademark of the National Paint and Coatings Association)

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 1, REACTIVITY 0  
(NFPA is a registered trademark of the National Fire Protection Association)

**Prepared By:** Denise Boyd, Manager-Environmental, Health & Safety

**Company:** ITW Permatex Canada. 35 Brownridge Rd. Unit 1, Halton Hills, ON L76 0C6

**Telephone No.:** 1-800-924-6994

**Revision Date:** April 08, 2014

**Revision Number:** 6