

Permatex Canada, Inc.  
 8450 Lawson Road, Unit 1  
 Milton, ON Canada L9T 0A4  
 Telephone: 1-87-Permatex  
 (877) 376-2839  
 Urgence: 800-255-3924 (ChemTel)

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

### I. PRODUCT IDENTIFICATION

**Product Name:** 84119 PC PERMA POXY MULTI-METAL EPOXY 4 MIN. PART 1 25ML  
**Item No:** PTX202005D  
**Product Type:** Epoxy resin

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	50-70	11400 mg/kg	not available	
LIMESTONE 1317-65-3	5-20	>5000 mg/kg	not available	
IRON 7439-89-6	5-20	984 mg/kg	not available	
SILICON 7440-21-3	<5	3160 mg/kg	not available	
NEOPENTYL GLYCOL DIGLYCIDYL ETHER 17557-23-2	<5	4500 mg/kg	not available	
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	<5	>5,000 mg/kg	not available	10 mg/m <sup>3</sup>
ELASTOMER MODIFIED DIGLYCIDYL ETHER 68909-14-8	<5	not available	not available	
SILICA, QUARTZ 14808-60-7	0.1-1.0	500 mg/kg	not available	0.025 mg/m <sup>3</sup>

### III. PHYSICAL DATA

**Physical State/Appearance:** Viscous liquid  
**Odour & Odour Threshold:** Mild odour  
**Specific Gravity:** 1.52  
**Evaporation Rate:** Not determined  
**Vapour Pressure:** Not determined  
**Vapour Density:** >1 (air =1)  
**Freezing Point:** Not determined  
**pH:** Neutral  
**Octanol/Water Coefficient:** Not determined  
**Boiling Point:** Not determined

### IV. FIRE AND EXPLOSIVE DATA

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Hazardous Combustion Products:** Oxides of carbon, Oxides of nitrogen, Aldehydes  
**Sensitivity to Static Discharge:** Sensitivity to static discharge is not expected  
**Conditions of Flammability:** None anticipated.  
**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  
**Materials to avoid:** Strong oxidizing agents, Strong bases, Acids  
**Conditions of Reactivity:** High temperatures.  
**Hazardous Decomposition Products:** Carbon oxides, Oxides of nitrogen, Aldehydes, Organic acid vapors

## **VI. HAZARDS IDENTIFICATION**

<b>Primary Routes of Exposure:</b>	Eye and skin contact, ingestion, inhalation
<b>Existing Conditions Aggravated by Exposure:</b>	Individuals with respiratory problems such as emphysema and asthma should avoid inhalation May aggravate preexisting dermatitis
<b>Toxicity Information:</b>	<b>(See Effects of Acute Exposure to Product)</b>
<b>Effects of Acute Exposure:</b>	May cause eye, skin and respiratory irritation. May cause skin sensitization. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
<b>Effects of Chronic Exposure:</b>	May cause an allergic skin reaction. Corneal damage.
<b>Irritancy of Product:</b>	Irritation of eyes, skin, nose and throat. May cause dermatitis on prolonged contact in sensitive individuals. Eyes: Exposure to liquid or vapor causes mild eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury.
<b>Sensitization to Product:</b>	<b>(See Effects of Acute Exposure to Product)</b>
<b>Carcinogenicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Reproductive Toxicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Teratogenicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Mutagenicity:</b>	<b>(See Effects of Chronic Exposure to Product)</b>
<b>Toxicologically Synergistic Products:</b>	None known
<b>WHMIS Hazard Class:</b>	D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

## **VII. PREVENTATIVE MEASURES**

<b>Personal Protection</b>	
<b>Eyes:</b>	Safety glasses.
<b>Skin:</b>	Neoprene or nitrile gloves recommended. Wash contaminated clothing before re-use.
<b>Ventilation:</b>	General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. In case of insufficient ventilation, wear an organic vapor respirator.
<b>Engineering Controls:</b>	In case of insufficient ventilation, wear an organic vapor respirator.
<b>Spill Procedures:</b>	Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal. Prevent from entering waterways or sewers.
<b>Protection of Man and Environment:</b>	Follow Canadian and local regulations for disposal.
<b>Handling Procedures and Equipment:</b>	Store away from heat, open flame or other sources of ignition. Use good personal hygiene. Avoid smoking, eating or drinking during use.
<b>Special Handling Information:</b>	Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

## **VIII. FIRST AID MEASURES**

<b>Ingestion:</b>	Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.
<b>Skin Contact:</b>	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.
<b>Eye Contact:</b>	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**

<b>Proper Shipping Name:</b>	Not regulated
<b>Hazard Class:</b>	None
<b>UN/ID No:</b>	None

### **IATA**

<b>Proper Shipping Name:</b>	Not regulated
<b>Class or Division:</b>	None
<b>UN/ID Number:</b>	None

### **IMDG**

<b>Proper Shipping:</b>	Not regulated
<b>Hazard Class:</b>	None
<b>UN Number:</b>	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 Assn.

**Product Name:** 84119 PC PERMA POXY MULTI-METAL  
EPOXY 4 MIN. PART 1 25ML

**Item No:** PTX202005D

**X. PREPARATION INFORMATION**

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 1, REACTIVITY 1  
NFPA is a registered trademark of the National Fire Protection Assn.

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

**Revision Date:** February 09, 2011

**Company:**  
Permatex Canada, Inc. 8450 Lawson Rd. Unit 1, Milton, ON L9T 0A4

**Revision Number:** 3

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

### I. PRODUCT IDENTIFICATION

**Product Name:** 84119 PC PERMA POXY 4 MIN MULTI-METAL EPOXY PART 2  
**Item No:** PTX203008D  
**Product Type:** Curing agent

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
MERCAPTAN AMINE BLEND MIXTURE	40-70	not available	not available	
LIMESTONE 1317-65-3	20-40	>5000 mg/kg	not available	
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	<5	>5,000 mg/kg	not available	10 mg/m <sup>3</sup>
SILICA, QUARTZ 14808-60-7	0.1-1.0	500 mg/kg	not available	0.025 mg/m <sup>3</sup>

### III. PHYSICAL DATA

**Physical State/Appearance:** Amber 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:** Dry chemical, Carbon dioxide, Foam  
**Hazardous Combustion Products:** Oxides of carbon, sulfur, nitrogen., Amines, Ammonia  
**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  
**Materials to avoid:** Strong oxidizing agents, Amines, Acids, Nitrites, Peroxides  
**Conditions of Reactivity:** High temperatures.  
**Hazardous Decomposition Products:** Oxides of nitrogen, Oxides of sulfur, Carbon monoxide, Carbon dioxide, Amines, Ammonia

### VI. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Eye and skin contact, ingestion, inhalation  
**Existing Conditions Aggravated by Exposure:** Skin disorders such as dermatitis, respiratory disorders including those of the lungs such as asthma-like conditions, central nervous system, eye, gastrointestinal tract, liver and kidney disorders.  
**Toxicity Information:** (See Effects of Acute Exposure to Product)

## **VI. HAZARDS IDENTIFICATION**

**Effects of Acute Exposure:** Can cause severe skin and eye irritation or burns. May cause permanent visual impairment. May cause skin sensitization. Ingestion may cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea. .  
**Effects of Chronic Exposure:** May cause an allergic skin reaction. Corneal damage.  
**Irritancy of Product:** Eyes: Exposure to liquid or vapor causes mild eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury. Contact causes severe skin irritation and possible burns. Ingestion causes burns of the upper digestive and respiratory tracts.  
**Sensitization to Product:** (See Effects of Acute Exposure to Product)  
**Carcinogenicity:** (See Effects of Chronic Exposure to Product)  
**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:** D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

## **VII. PREVENTATIVE MEASURES**

**Personal Protection**  
**Eyes:** Safety glasses.  
**Skin:** Neoprene or nitrile gloves recommended. Wash contaminated clothing before re-use.  
**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits (or to the lowest feasible levels when limits have not been established) during the use of this product. In case of insufficient ventilation, wear an organic vapor respirator.  
**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:** Keep away from sources of ignition and hot surfaces. Use with adequate ventilation. Use good personal hygiene. Avoid smoking, eating or drinking during use.  
**Special Handling Information:** Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use.

## **VIII. FIRST AID MEASURES**

**Ingestion:** Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. 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:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get 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.

## **IX. SHIPPING INFORMATION**

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

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

### **IATA**

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

### **IMDG**

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

## **X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 3, FLAMMABILITY 1, PHYSICAL HAZARD 0  
HMIS is a registered trademark of the National Paint and Coatings Assn.

**Estimated NFPA Rating:** HEALTH 3, FLAMMABILITY 1, REACTIVITY 0  
NFPA is a registered trademark of the National Fire Protection Assn.

**Product Name: 84119 PC PERMA POXY 4 MIN MULTI-  
METAL EPOXY PART 2**

**Item No: PTX203008D**

**X. PREPARATION INFORMATION**

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

**Revision Date:** February 09, 2011

**Company:**

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