

ITW Permatex Canada
8450 Lawson Road, Unit 1
Milton, ON Canada L9T 0J8
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Urgence: 800-255-3924 (ChemTel)

Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: PC 84162 PERMA POXY 1 MINUTE CLEAR EPOXY 25 ML PART 1
Item No: VC0163A
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	>90	11400 mg/kg	not available	
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	<10	>5,000 mg/kg	not available	10 mg/m ³

III. PHYSICAL DATA

Physical State/Appearance: Clear liquid
Odour & Odour Threshold: Slight odour
Specific Gravity: 1.16
Evaporation Rate: <1 (butyl acetate = 1)
Vapour Pressure: <0.1 mm Hg
Vapour Density: >1 (air =1)
Freezing Point: Not determined
pH: Does not apply
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: Oxides of carbon, Aldehydes
Sensitivity to Static Discharge: Sensitivity to static discharge is not expected
Conditions of Flammability: Heating above 150C in the presence of air may cause slow oxidative decomposition and above 260C may cause polymerization.
Flash Point/Range: >200°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: Acids, Strong oxidizers and bases
Conditions of Reactivity: Avoid excessive heat, sparks and open flame.
Hazardous Decomposition Products: Carbon oxides, Aldehydes, Organic acid vapors

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: Contact at elevated temperatures can cause thermal burns. 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). High concentration may cause respiratory irritation and central nervous system depression with dizziness, headache, unconsciousness and/or death.

Effects of Chronic Exposure: May cause an allergic skin reaction.
Irritancy of Product: See (Effects of Acute Exposure to Product)

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CLEAR EPOXY 25 ML PART 1

Item No: VC0163A

VI. HAZARDS IDENTIFICATION

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: 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: Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
Spill Procedures: 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. Give victim water, call a physician immediately. 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.
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.

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

Revision Date: November 29, 2011

Company: ITW Permatex Canada. 8450 Lawson Rd. Unit 1, Milton, ON L9T 0J8

Revision Number: 4

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Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: PC 84162 PERMA POXY 1 MINUTE CLEAR EPOXY 25 ML PART 2
Item No: VC1519A
Product Type: Epoxy hardener

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
POLYAMINE-POLYMERCAPTAN BLEND Mixture	>80	not available	not available	
SUBSTITUTED AMIDINE 6674-22-2	<5	not available	not available	
2,2-OXYBIS (N,N-DIMETHYLETHANAMINE) 3033-62-3	<5	1070 mg/kg	not available	0.05 ppm

III. PHYSICAL DATA

Physical State/Appearance: Amber liquid
Odour & Odour Threshold: Mercaptan odour
Specific Gravity: 1.12
Evaporation Rate: <1 (butyl acetate = 1)
Vapour Pressure: Not determined
Vapour Density: Heavier than air
Freezing Point: Not determined
pH: Does not apply
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 nitrogen, Oxides of carbon, Oxides of sulfur, Hydrogen sulfide
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: None
Materials to avoid: Amines, Strong oxidizing agents
Conditions of Reactivity: High temperatures.
Hazardous Decomposition Products: Oxides of nitrogen, Oxides of sulfur, Hydrogen sulfide

VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation
Existing Conditions Aggravated by Exposure: Individuals with respiratory problems such as emphysema and asthma should avoid inhalation May aggravate preexisting dermatitis
Toxicity Information: (See Effects of Acute Exposure to Product)
Effects of Acute Exposure: Can cause severe skin and eye irritation or burns. May cause permanent visual impairment. Inhalation effects may be delayed. Causes chemical burns to the respiratory tract. Exposure may lead to bronchitis, pharyngitis and dental erosion. May be absorbed through the lungs. Ingestion may cause damage to mucous membranes. May cause skin sensitization.

VI. HAZARDS IDENTIFICATION

Effects of Chronic Exposure:	Causes burns of the mouth, throat and stomach. Aspiration can be a hazard if this material is swallowed. Corneal damage.
Irritancy of Product:	Contact causes severe skin irritation and possible burns. Eye irritation may be severe. 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:	E CORROSIVE MATERIAL, D2B TOXIC MATERIALS

VII. PREVENTATIVE MEASURES

Personal Protection

Eyes:	Chemical goggles; also wear a face shield if splashing hazard exists.
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:	Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
Spill Procedures:	Prevent from entering waterways or sewers. Wear appropriate protective and respiratory equipment.
Protection of Man and Environment:	Follow Canadian and local regulations for disposal.
Handling Procedures and Equipment:	Avoid breathing vapours. Store away from heat, sparks and open flame. Store at temperatures below 50°C. 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:	If swallowed, DO NOT induce vomiting. Drink water or milk. Seek medical attention immediately. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.
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. Discard contaminated shoes.
Eye Contact:	Flush eyes with clean water for at least 20 minutes while gently holding eyelids open, lifting upper and lower lids.

IX. SHIPPING INFORMATION

Canadian Transportation of Dangerous Goods

Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s., (Mercaptan/amine blend) May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG Regulations
Hazard Class:	Class 8, PGIII
UN/ID No:	UN 3267

IATA (Air)

Proper Shipping Name:	Consumer Commodity (Not more than 1 liter)
Class or Division:	Class 9
UN/ID Number:	ID 8000

IMDG (Vessel)

Proper Shipping Name:	Corrosive liquid, basic, organic, n.o.s.(Mercaptan/Amine blend), Limited Quantity
Hazard Class:	Class 8 PGIII
UN Number:	UN 3267

X. PREPARATION INFORMATION

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

Estimated NFPA Rating: HEALTH 3, FLAMMABILITY 1, REACTIVITY 0
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CLEAR EPOXY 25 ML PART 2**

Item No: VC1519A

X. PREPARATION INFORMATION

Revision Number: 6

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