

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: 81374 PC COLD WELD BONDING COMPOUND PART 1
Item No: PTX202005L
Product Type: Epoxy resin

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
LIMESTONE 1317-65-3	>50	>5000 mg/kg	not available	
BISPHENOL A/EPICHLOROHYDRIN BASED EPOXY RESIN 25068-38-6	30-60	11400 mg/kg	not available	
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	<5	>5,000 mg/kg	not available	10 mg/m ³
BENZYL ALCOHOL 100-51-6	<5	1230 mg/kg	8.8 mg/L/4H	

III. PHYSICAL DATA

Physical State/Appearance: Black liquid
Odour & Odour Threshold: Slight odour
Specific Gravity: 1.9
Evaporation Rate: <1 (butyl acetate = 1)
Vapour Pressure: <0.1 mm Hg @ 20°C
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: 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: Strong oxidizers and bases, Amines, Acids
Conditions of Reactivity: High temperatures. Avoid contact with incompatible materials.
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)

VI. HAZARDS IDENTIFICATION

Effects of Acute Exposure:	Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes. May cause nausea, vomiting, pain and stomach upset (i.e., diarrhea). Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. May cause skin sensitization. May cause an allergic skin reaction.
Effects of Chronic Exposure:	
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)
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:	
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:	Store away from heat, open flame or other sources of ignition. 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. Eye wash station should be close by in case of contact with eyes.

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 vapors. 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 2, FLAMMABILITY 1, PHYSICAL HAZARD 0
HMIS is a registered trademark of the National Paint and Coatings Assn.

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

**Product Name: 81374 PC COLD WELD BONDING
COMPOUND PART 1**

Item No: PTX202005L

X. PREPARATION INFORMATION

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

Revision Date: February 08, 2011

Company:

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

Revision Number: 2

Telephone No.: 1-87-Permatex (877) 376-2839

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Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

I. PRODUCT IDENTIFICATION

Product Name: 81374 PC COLD WELD BONDING COMPOUND 2OZ PART 2
Item No: PTX203008L
Product Type: Curing agent

II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
LIMESTONE 1317-65-3	50-70	>5000 mg/kg	not available	
MERCAPTAN AMINE BLEND MIXTURE	30-60	not available	not available	
BENZYL ALCOHOL 100-51-6	<10	1230 mg/kg	8.8 mg/L/4H	
TREATED SILICON DIOXIDE, SYNTHETIC, CRYSTALLINE-FREE 67762-90-7	<10	>5,000 mg/kg	not available	10 mg/m ³
SILICA, QUARTZ 14808-60-7	0.1-1.0	500 mg/kg	not available	0.025 mg/m ³

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, 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
Materials to avoid: Strong oxidizing agents, Acids, Peroxides
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)

VI. HAZARDS IDENTIFICATION

Effects of Acute Exposure: The aminophenol can cause severe irritation and may be corrosive on prolonged contact. It may be a sensitizer. It can also be corrosive to eye tissue leading to permanent injury including blindness. It may irritate the respiratory tract and may cause delayed lung damage upon overexposure to fumes or vapors. It can also cause fatigue, muscular weakness, labored breathing or gastrointestinal irritation if swallowed.

Effects of Chronic Exposure: May cause an allergic skin reaction. Overexposure may cause delayed lung injury and chemical pneumonia.

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.

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.

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.

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: Store away from heat, open flame or other sources of ignition. 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 1
NFPA is a registered trademark of the National Fire Protection Assn.

**Product Name: 81374 PC COLD WELD BONDING
COMPOUND 2OZ PART 2**

Item No: PTX203008L

X. PREPARATION INFORMATION

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

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