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 8450 Lawson Road, Unit 1  
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 Telephone: 1-87-Permatex  
 (877) 376-2839  
 Urgence: 800-255-3924

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

### I. PRODUCT IDENTIFICATION

**Product Name:** PC 09227 REAR WINDOW DEFOGGER REPAIR KIT PART 1  
**Item No:** 190510C  
**Product Type:** Adhesive

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
POLYURETHANE METHACRYLATE RESIN MIXTURE	35-45	not available	not available	
HYDROXYALKYL METHACRYLATE 27813-02-1	25-35	11200 mg/kg	not available	
ALIPHATIC URETHANE METHACRYLATE 3290-92-4	<10	5660 uL/kg	not available	
ACRYLIC ACID 79-10-7	<7	33.5 mg/kg	3.6 mg/L/4H; 1202 ppm/4H	2 ppm
DIMETHYLBENZYL HYDROPEROXIDE 80-15-9	<3	382 mg/kg	200 ppm/4H	
2-HYDROXYETHYL METHACRYLATE 868-77-9	<3	5050 mg/kg	not available	

### III. PHYSICAL DATA

**Physical State/Appearance:** Yellow liquid  
**Odour & Odour Threshold:** Sharp, irritating  
**Specific Gravity:** 1.08  
**Evaporation Rate:** Not determined  
**Vapour Pressure:** Not determined  
**Vapour Density:** Heavier than air  
**Freezing Point:** Not determined  
**pH:** Does not apply  
**Octanol/Water Coefficient:** Not determined  
**Boiling Point:** >150°C

### IV. FIRE AND EXPLOSIVE DATA

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Hazardous Combustion Products:** Oxides of carbon  
**Sensitivity to Static Discharge:** Sensitivity to static discharge is not expected.  
**Conditions of Flammability:** None anticipated.  
**Flash Point/Range:** >95°C COC  
**Autoignition Temperature:** Not determined  
**Upper Explosive Limit:** Acrylic acid: 8.0%  
**Lower Explosive Limit:** Acrylic acid: 2.0%

### V. REACTIVITY DATA

**Conditions Causing Chemical Instability:** None  
**Materials to avoid:** Strong oxidizing agents, Strong bases  
**Conditions of Reactivity:** None  
**Hazardous Decomposition Products:** CO, CO2 and various unidentified organic compounds

## **VI. HAZARDS IDENTIFICATION**

**Primary Routes of Exposure:** Eye and skin contact, ingestion, inhalation  
**Existing Conditions Aggravated by Exposure:** Acrylic acid: Upper respiratory and lung diseases, dermatitis.  
**Toxicity Information:** (See Effects of Acute Exposure to Product)  
**Effects of Acute Exposure:** May cause severe eye irritation and moderate skin irritation. Possible inhalation irritant. May be harmful if swallowed.  
**Effects of Chronic Exposure:** None known.  
**Irritancy of Product:** Eye irritation may be severe. Eyes: Exposure to liquid or vapor causes mild eye irritation. Symptoms may include burning, tearing, redness, stinging, blurred vision and corneal injury. May cause dermatitis on prolonged contact in sensitive individuals.  
**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.  
**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:** Follow Canadian and local regulations for disposal.  
**Protection of Man and Environment:** Avoid breathing vapours. Use with adequate ventilation.  
**Handling Procedures and Equipment:** Avoid prolonged breathing of vapor. Keep away from eyes. Avoid prolonged contact with skin. Do not smoke while using. Wash hands after use. Do not store at temperatures above 40 degrees C.  
**Special Handling Information:**

## **VIII. FIRST AID MEASURES**

**Ingestion:** If swallowed, DO NOT induce vomiting. Keep individual calm. Obtain medical attention.  
**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.  
**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**

**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: PC 09227 REAR WINDOW DEFOGGER  
REPAIR KIT PART 1**

**Item No: 190510C**

**X. PREPARATION INFORMATION**

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

**Revision Date:** September 05, 2008

**Company:**  
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**Revision Number:** 4

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

### I. PRODUCT IDENTIFICATION

**Product Name:** PC 09227 REAR WINDOW DEFOGGER REPAIR KIT PART 2  
**Item No:** 390144C  
**Product Type:** Coating

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
SILVER 7440-22-4	40-50	>2000 mg/kg	not available	0.1 mg/m <sup>3</sup>
ETHYL ACETATE 141-78-6	20-30	5620 mg/kg	not available	400 ppm
ETHANOL 64-17-5	10-20	7060 mg/kg	not available	1000 ppm
1-METHOXY-2-PROPANOL ACETATE 108-65-6	10-20	8532 mg/kg	not available	
POLY (METHYL METHACRYLATE) 9011-14-7	1-10	not available	not available	
PIGMENT ORANGE #13 3520-72-7	<3	>5 g/kg	not available	

### III. PHYSICAL DATA

**Physical State/Appearance:** Copper-colored liquid  
**Odour & Odour Threshold:** Alcohol odour  
**Specific Gravity:** 1.5  
**Evaporation Rate:** Not determined  
**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 Chemicals, Foam.  
**Hazardous Combustion Products:** Irritating organic vapours.  
**Sensitivity to Static Discharge:** Sensitivity to static discharge is expected; material has a flashpoint less than or equal to 10 degrees C..  
**Conditions of Flammability:** FLAMMABLE: Keep from heat and open flame.  
**Flash Point/Range:** -10°C. Method: TCC  
**Autoignition Temperature:** Not determined  
**Upper Explosive Limit:** Ethyl acetate: 11.0%; Ethanol: 24.5%  
**Lower Explosive Limit:** Ethyl acetate: 2.2%; Ethanol: 3.3%

### V. REACTIVITY DATA

**Conditions Causing Chemical Instability:** None  
**Materials to avoid:** Strong oxidizers, Acids, Amines, Peroxides, Strong bases  
**Conditions of Reactivity:** None  
**Hazardous Decomposition Products:** Carbon monoxide, Carbon dioxide

### VI. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Eye and skin contact, ingestion, inhalation  
**Existing Conditions Aggravated by Exposure:** Dermatitis, liver and skin disorders, chronic irritation of mucous membranes and respiratory tract..

## **VI. HAZARDS IDENTIFICATION**

<b>Toxicity Information:</b>	<b>(See Effects of Acute Exposure to Product)</b>
<b>Effects of Acute Exposure:</b>	Excessive exposure may cause headache, nausea, dizziness and in extreme cases, unconsciousness, respiratory depression. May be absorbed through the skin with toxic effects. May cause severe eye irritation and moderate skin irritation. Possible inhalation irritant. May be harmful if swallowed. May irritate respiratory system upon frequent or prolonged use. Overexposure by inhalation may cause nasal and respiratory irritation, central nervous system affects, dizziness, drowsiness, weakness, fatigue, nausea, headache and possible unconsciousness.
<b>Effects of Chronic Exposure:</b>	See (Effects of Acute Exposure to Product).
<b>Irritancy of Product:</b>	Vapor above TLV is irritating to eyes, nose, and throat and can cause headache, dizziness, nausea. Eye irritation may be severe. May cause dermatitis on prolonged contact in sensitive individuals. Inhalation: Dizziness, anesthesia, unconsciousness, difficulty in breathing.
<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>	B2 FLAMMABLE LIQUIDS, 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.
<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.
<b>Engineering Controls:</b>	In case of insufficient ventilation, wear an organic vapor respirator.
<b>Spill Procedures:</b>	Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
<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.
<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. Keep away from heat, sparks and open flame.

## **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>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<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>	Flammable liquids, n.o.s., (Ethyl acetate, ethyl alcohol) (May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG regulations)
<b>Hazard Class:</b>	Class 3; Packing Group II
<b>UN/ID No:</b>	UN 1993

### **IATA**

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

### **IMDG**

<b>Proper Shipping:</b>	Flammable liquids, n.o.s., (Ethyl acetate, ethyl alcohol), Limited Quantity
<b>Hazard Class:</b>	Class 3, PG II
<b>UN Number:</b>	UN 1993

## **X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 3, PHYSICAL HAZARD 0  
HMIS is a registered trademark of the National Paint and Coatings Assn.

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 3, REACTIVITY 0

**Product Name: PC 09227 REAR WINDOW DEFOGGER  
REPAIR KIT PART 2**

**Item No: 390144C**

**X. PREPARATION INFORMATION**

NFPA is a registered trademark of the National Fire Protection Assn.

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

**Revision Date:** December 21, 2007

**Company:**  
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**Revision Number:** 4

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

### I. PRODUCT IDENTIFICATION

**Product Name:** PC 09227 REAR WINDOW DEFOGGER REPAIR KIT PART 3  
**Item No:** 396319A  
**Product Type:** Activator

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
2-PROPANOL 67-63-0	90-100	4396 mg/kg	72.6 mg/L/4H	200 ppm
MINERAL SPIRITS 8052-41-3	<2	not available	not available	100 ppm
ORGANO-COPPER COMPOUND 85737-14-0	<1	not available	not available	
ORGANO-COPPER COMPOUND 68084-48-0	<1	not available	not available	
ORGANO-COPPER COMPOUND 22221-10-9	<1	not available	not available	

### III. PHYSICAL DATA

**Physical State/Appearance:** Clear liquid  
**Odour & Odour Threshold:** Alcohol odour  
**Specific Gravity:** 0.79  
**Evaporation Rate:** 7.7 (butyl acetate = 1)  
**Vapour Pressure:** 33 mmHg @ 20°C  
**Vapour Density:** 2.1 (2-Propanol)  
**Freezing Point:** -85°C (2-Propanol)  
**pH:** Does not apply  
**Octanol/Water Coefficient:** Not determined  
**Boiling Point:** 82°C @ 760 mmHg

### IV. FIRE AND EXPLOSIVE DATA

**Recommended Extinguishing Media:** Carbon Dioxide, Dry Chemicals, Foam.  
**Hazardous Combustion Products:** Oxides of carbon  
**Sensitivity to Static Discharge:** Sensitivity to static discharge is expected; material has a flashpoint less than or equal to 10 degrees C..  
**Conditions of Flammability:** FLAMMABLE: Keep from heat and open flame. Vapours are heavier than air and may travel or be moved along the ground to an ignition source.  
**Flash Point/Range:** 12°C TCC  
**Autoignition Temperature:** 400°C (2-Propanol)  
**Upper Explosive Limit:** 12.0%  
**Lower Explosive Limit:** 2.0%

### V. REACTIVITY DATA

**Conditions Causing Chemical Instability:** None  
**Materials to avoid:** Strong oxidizing agents  
**Conditions of Reactivity:** Avoid excessive heat, sparks and open flame  
**Hazardous Decomposition Products:** CO, CO2 and various unidentified organic compounds

### VI. HAZARDS IDENTIFICATION

**Primary Routes of Exposure:** Eye and skin contact, ingestion, inhalation  
**Existing Conditions Aggravated by Exposure:** Propanol: Skin, eye and respiratory disorders.. Persons with preexisting respiratory, liver, kidney, eye or skin diseases may be adversely affected.  
**Toxicity Information:** (See Effects of Acute Exposure to Product)

## **VI. HAZARDS IDENTIFICATION**

<b>Effects of Acute Exposure:</b>	High concentration may cause respiratory irritation and central nervous system depression with dizziness, headache, unconsciousness. Inhaling may cause mild irritation to the nose, throat and respiratory tract. May cause eye and skin irritation. Moderately toxic if swallowed. Irritating to mouth, throat and stomach with nausea.
<b>Effects of Chronic Exposure:</b>	May cause liver and kidney damage.
<b>Irritancy of Product:</b>	Irritation of eyes, skin, nose and throat. May cause dermatitis on prolonged contact in sensitive individuals.
<b>Sensitization to Product:</b>	(See Effects of Acute Exposure to Product)
<b>Carcinogenicity:</b>	(See Effects of Chronic Exposure to Product)
<b>Reproductive Toxicity:</b>	(See Effects of Chronic Exposure to Product)
<b>Teratogenicity:</b>	(See Effects of Chronic Exposure to Product)
<b>Mutagenicity:</b>	(See Effects of Chronic Exposure to Product)
<b>Toxicologically Synergistic Products:</b>	None known
<b>WHMIS Hazard Class:</b>	B2 FLAMMABLE LIQUIDS, D2B TOXIC MATERIALS

## **VII. PREVENTATIVE MEASURES**

<b>Personal Protection</b>	
<b>Eyes:</b>	Safety glasses.
<b>Skin:</b>	Neoprene or nitrile gloves recommended.
<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>	
<b>Spill Procedures:</b>	Eliminate all sources of ignition. Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal.
<b>Protection of Man and Environment:</b>	Follow Canadian and local regulations for disposal.
<b>Handling Procedures and Equipment:</b>	Flammable. Store away from heat, open flame or other sources of ignition. Avoid breathing vapours. Use with adequate ventilation. 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. Keep away from heat, sparks and open flame.

## **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>	Wash off with soap and water. If skin irritation persists, call a physician.
<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>	Isopropanol solution (May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG regulations.)
<b>Hazard Class:</b>	Class 3; Packing Group II
<b>UN/ID No:</b>	UN 1219

### **IATA**

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

### **IMDG**

<b>Proper Shipping:</b>	Isopropanol (Isopropyl Alcohol), Limited Quantity
<b>Hazard Class:</b>	Class 3, PG II (12°C C.C)
<b>UN Number:</b>	UN 1219

## **X. PREPARATION INFORMATION**

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

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



**Product Name: PC 09227 REAR WINDOW DEFOGGER  
REPAIR KIT PART 3**

**Item No: 396319A**

**X. PREPARATION INFORMATION**

**Revision Date:** June 17, 2009

**Company:**  
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**Revision Number:** 9

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