

ITW Permatex Canada  
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## Canadian Workplace Hazardous Materials Information System Material Safety Data Sheet

### I. PRODUCT IDENTIFICATION

Product Name: SA-8 BATTERY CLEANER 5 OZ AE  
Item No: 80369  
Product Type: Aerosol cleaner

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component:	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
WATER 7732-18-5	>75	not available	not available	
SODIUM BICARBONATE 144-55-8	<10	4220 mg/kg	not available	
BUTANE 106-97-8	<7	not available	658 mg/L/4H	1000 ppm
2-BUTOXYETHANOL 111-76-2	<5	470 mg/kg	2.21 mg/L/4H, 450 ppm/4H	20 ppm
PROPANE 74-98-6	<5	not available	658 mg/L/4H	1000 ppm
TRIETHANOLAMINE 102-71-6	<5	4190 mg/kg	not available	5 mg/m <sup>3</sup>

### III. PHYSICAL DATA

Physical State/Appearance: White foam/aerosol  
Odour & Odour Threshold: Hydrocarbon odour  
Specific Gravity: 0.95-1.05  
Evaporation Rate: <1 (Butyl acetate = 1)  
Vapour Pressure: Not determined  
Vapour Density: Heavier than air  
Freezing Point: Not determined  
pH: 7.5-8.5  
Octanol/Water Coefficient: Not determined  
Boiling Point: 100°C (212°F)

### IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.  
Hazardous Combustion Products: Oxides of carbon  
Sensitivity to Static Discharge: Aerosol cans are under pressure and may explode in fire.  
Conditions of Flammability: Containers may explode if heated. Keep containers cool. Use equipment or shielding to protect personnel from bursting containers.  
Flash Point/Range: No flame projection.  
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: Strong oxidizing agents  
Conditions of Reactivity: Avoid excessive heat, sparks and open flame.  
Hazardous Decomposition Products: Carbon oxides

### VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation  
Existing Conditions Aggravated by Exposure: 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>	Overexposure to 2-Butoxyethanol can cause nausea, dizziness, vomiting, malaise, incoordination, diarrhea, weakness, eye redness and swelling of the conjunctiva.
<b>Effects of Chronic Exposure:</b>	May cause central nervous system effects. May cause liver and kidney damage.
<b>Irritancy of Product:</b>	May cause gastrointestinal irritation, central nervous system depression. Overexposure may cause eye or respiratory system irritation; headache, nausea, dizziness, weakness, fatigue, unconsciousness, vomiting, diarrhea, eye redness, tearing, blurred vision.
<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>	A COMPRESSED GAS, 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>	Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.
<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>	Contents under pressure. Do not puncture or incinerate container. Do not store sealed containers near extreme heat. Store away from heat, sparks and open flame. Store at temperatures below 50°C.
<b>Special Handling Information:</b>	Keep away from heat, sparks and open flame. 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>	If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.
<b>Inhalation:</b>	Move to fresh air in case of accidental inhalation of vapours. 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>	Aerosols, Limited Quantity
<b>Hazard Class:</b>	Class 2.2
<b>UN/ID No:</b>	UN 1950

### **IATA (Air)**

<b>Proper Shipping Name:</b>	Consumer Commodity
<b>Class or Division:</b>	Class 9
<b>UN/ID Number:</b>	ID 8000

### **IMDG (Vessel)**

<b>Proper Shipping Name:</b>	Aerosols, Limited Quantity
<b>Hazard Class:</b>	Class 2.2
<b>UN Number:</b>	UN 1950

## **X. PREPARATION INFORMATION**

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

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

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**Revision Date:** February 19, 2015

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

**Revision Number:** 2

**X. PREPARATION INFORMATION**

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