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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	
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

### III. PHYSICAL DATA

**Physical State/Appearance:** White foam/aerosol  
**Odour & Odour Threshold:** Slight 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 oxidizers  
**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)  
**Effects of Acute Exposure:** Overexposure to 2-Butoxyethanol can cause nausea, dizziness, vomiting, malaise, incoordination, diarrhea, weakness, eye redness and swelling of the conjunctiva.  
**Effects of Chronic Exposure:** May cause central nervous system effects May cause liver and kidney damage

**VI. HAZARDS IDENTIFICATION**

**Irritancy of Product:** 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

**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:** A COMPRESSED GAS, 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:** Eliminate all sources of ignition Maintain good ventilation. Take up with an inert absorbent. Store in a closed waste container until disposal

**Protection of Man and Environment:** Follow Canadian and local regulations for disposal.

**Handling Procedures and Equipment:** 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

**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. Do not store at temperatures above 40 degrees C. Keep away from heat, sparks and open flame.

**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. If not breathing, give artificial respiration. Obtain medical attention.

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**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:** Aerosols (May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG Regulations)

**Hazard Class:** Class 2.2

**UN/ID No:** UN 1950

**IATA**

**Proper Shipping Name:** Consumer Commodity (Not more than 1 liter)

**Class or Division:** Class 9

**UN/ID Number:** ID 8000

**IMDG**

**Proper Shipping:** Aerosols, Limited Quantity

**Hazard Class:** Class 2.2

**UN Number:** 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 Assn.

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

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

Revision Date: January 22, 2010

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**Item No: 80369**

**X. PREPARATION INFORMATION**

**Company:**

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

**Revision Number: 2**

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