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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	Not Listed
BUTANE 106-97-8	<10	not available	658 g/m ³ /4H	1000 ppm TWA
2-BUTOXYETHANOL 111-76-2	<5	470 mg/kg	450 ppm/4H	20 ppm TWA
PROPANE 74-98-6	<5	not available	not available	1000 ppm TWA

III. PHYSICAL DATA

Physical State/Appearance: White foam/aerosol
Odour & Odour Threshold: Slight hydrocarbon odour
Specific Gravity: 1.0
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

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: 9.5%
Lower Explosive Limit: 1.8

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: 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: 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:	Rubber or plastic gloves.
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:	See "Ventilation" above
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 degrees 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/NA 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

Estimated NFPA Rating: HEALTH 1, FLAMMABILITY 2, REACTIVITY 0

HMIS is a registered trademark of the National Paint and Coatings Assn.

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

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