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

### I. PRODUCT IDENTIFICATION

Product Name: **ELECTRICAL CONTACT & PARTS CLEANER 15 OZ**  
Item No: **82588**  
Product Type: **Aerosol cleaner**

### II. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight%	LD50/oral/rat	LC50/inhalation/rat	ACGIH; TLV-TWA
1,1-DIFLUOROETHANE 75-37-6	40-60	oral rat 1,500 mg/kg	inhal. rat 383,000ppm 2H	
HEPTANE 142-82-5	40-60	5000 mg/kg	103 g/m <sup>3</sup> /4H	400 ppm

### III. PHYSICAL DATA

Physical State/Appearance: Aerosol/Clear liquid  
Odour & Odour Threshold: Solvent odour  
Specific Gravity: 0.7  
Evaporation Rate: >1.0 (butyl acetate = 1)  
Vapour Pressure: Not determined  
Vapour Density: Heavier than air  
Freezing Point: Not determined  
pH: Does not apply  
Octanol/Water Coefficient: Not determined  
Boiling Point: 93°C

### IV. FIRE AND EXPLOSIVE DATA

Recommended Extinguishing Media: Carbon Dioxide, Dry Chemicals, Foam.  
Hazardous Combustion Products: Oxides of carbon, Hydrogen halide  
Sensitivity to Static Discharge: Aerosol cans are under pressure and may explode in fire.  
Conditions of Flammability: FLAMMABLE: Keep from heat and open flame. Contents under pressure. Keep containers cool. Containers may explode if heated. Use equipment or shielding to protect personnel from bursting containers.  
Flash Point/Range: Extremely flammable per 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, Acids, Alkalies, Reducing agents  
Conditions of Reactivity: High temperatures.  
Hazardous Decomposition Products: Carbon oxides, Hydrogen halide and bromides.

### VI. HAZARDS IDENTIFICATION

Primary Routes of Exposure: Eye and skin contact, ingestion, inhalation  
Toxicity Information: (See Effects of Acute Exposure to Product)  
Effects of Acute Exposure: Excessive exposure may cause headache, nausea, dizziness and in extreme cases, unconsciousness, respiratory depression. Intentionally concentrating and inhaling the vapor may be harmful or fatal. May cause eye, skin and respiratory irritation.  
Effects of Chronic Exposure: May affect the heart and cardiovascular system.  
Irritancy of Product: Headache, nausea, dizziness, light headedness, staggering gait, giddiness. 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.

## **VI. HAZARDS IDENTIFICATION**

**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:** B5 FLAMMABLE AEROSOLS, 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. In case of insufficient ventilation, wear an organic vapor respirator.  
**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:** Avoid breathing vapours. Contents under pressure. Do not puncture or incinerate container. 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 use for prolonged periods in confined area without adequate ventilation.

## **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. Do not give drugs from adrenaline-ephedrine group.  
**Inhalation:** Move to fresh air in case of accidental inhalation of vapours. Oxygen or artificial respiration if needed. Obtain medical attention.  
**Skin Contact:** Wash off with soap and water. If skin irritation persists, call a physician. Remove contaminated clothing and launder before reuse.  
**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, Limited Quantity  
**Hazard Class:** Class 2.1  
**UN/ID No:** UN 1950

### **IATA (Air)**

**Proper Shipping Name:** Consumer Commodity  
**Class or Division:** Class 9  
**UN/ID Number:** ID 8000

### **IMDG (Vessel)**

**Proper Shipping Name:** Aerosols, Limited Quantity  
**Hazard Class:** Class 2.1  
**UN Number:** UN 1950

## **X. PREPARATION INFORMATION**

**Estimated HMIS Classification:** HEALTH 2, FLAMMABILITY 4, PHYSICAL HAZARD 0  
(HMIS is a registered trademark of the National Paint and Coatings Association)

**Estimated NFPA Rating:** HEALTH 2, FLAMMABILITY 4, REACTIVITY 0  
(NFPA is a registered trademark of the National Fire Protection Association)

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**Revision Date:** January 04, 2013

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

**Revision Number:** 2

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