

Permatex Canada, Inc.  
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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.  
**Sensitization to Product:** (See Effects of Acute Exposure to Product)

## **VI. HAZARDS IDENTIFICATION**

**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.  
**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:** If swallowed, DO NOT induce vomiting. Obtain medical attention immediately. 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 (May qualify as a Consumer Commodity or Limited Quantity. Refer to TDG Regulations)  
**Hazard Class:** Class 2.1  
**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 2.1  
**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 Assn.

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

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**Company:**  
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**Revision Number:** 1

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