

# MATERIAL SAFETY DATA SHEET

## CANADIAN WHMIS FORMAT

### Section 1 – Product Identification and Use

**Product Identifier:** A+ Electrical Contact Cleaner  
**Product Identification Number:** RT620A  
**Product Use:** Aerosol Solvent  
**Manufacturer's Name:** Refrigeration Technologies  
**Street Address:** 2572 Fender Ave Bldg "C"  
**City:** Fullerton **State:** CA **Zip Code:** 92831  
**Phone Number:** 714-870-8361 **24 Hour Emergency Phone Number:** 800-255-3924

### Section 2 – Hazardous Ingredients

|                              |     |               |              |
|------------------------------|-----|---------------|--------------|
| 1,1,1,2 Tetrafluoroethane    | 10% | CAS# 811-97-2 | PEL 1000 ppm |
| 1,1,1,3,3 Pentafluoropropane | 90% | CAS# 460-47-1 | PEL 1000 ppm |

### Section 3 – Physical Data

|   |   |
|---|---|
| <b>Physical State:</b> Liquid             | <b>Boiling Point:</b> 35 C              |
| <b>Odor and Appearance:</b> Clear/Solvent | <b>Freezing Point:</b> Not Tested       |
| <b>Odor Threshold:</b> 1000 ppm           | <b>pH:</b> None                         |
| <b>Vapor Pressure:</b> 76 psia            | <b>Specific Gravity:</b> 1.30           |
| <b>Vapor Density:</b> 2                   | <b>Coeff Water/Oil Dist:</b> Not Tested |
| <b>Evaporation Rate:</b> 0.2              | <b>VOC:</b> All ingredients Exempt      |

### Section 4 – Fire and Explosion Data

|   |                                       |
|---|---------------------------------------|
| <b>Flammability:</b> Non- Flammable   | <b>Auto Ignition Temp:</b> Not Tested |
| <b>Means of Extinction:</b> Water, Foam, CO2  |                                       |
| <b>Hazardous Comb Products:</b> Carbon Monoxide and other harmful compounds.  |                                       |
| <b>Flash Point:</b> None  | <b>Explosion Data:</b> Not Tested     |
| <b>Upper Flam Limit:</b> Not Tested   |                                       |
| <b>Static Discharge Potential:</b> Not Tested   |                                       |
| <b>Lower Flam Limit:</b> Not Tested   |                                       |
| <b>Special Information:</b> In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece. |                                       |

### Section 5 – Reactivity Data

|  |   |
|--|---|
| <b>Chemical Stability:</b> Yes, Stable   | <b>If No, Under Which Conditions:</b>   |
| <b>Incompatibility with Other Substances:</b> Yes<br>or Alkali, Finely powdered metals | <b>If Yes, Which Ones:</b> Strong Acids |
| <b>Hazardous Decomposition Products:</b> Hydrogen Fluoride, Carbon Monoxide            |   |

**Product Identifier:** A+ RT620A

## Section 6 – Toxicological Properties

**Routes of Entry:** All Possible

**Skin:** Yes **Skin Absorption:** Yes **Eyes:** Yes **Inhalation:** Yes **Ingestion:** Yes

**Effects of Acute Exposure:**

**Skin:** Irritation **Eyes:** Irritation **Inhalation:** Dizziness **Ingestion:** Nausea

**Effects of Chronic Exposure:**

**Skin:** Irritation **Eyes:** Irritation **Inhalation:** Euphoria, headache loss of conciseness.

**Ingestion:** Nausea, vomiting

**Exposure Limits:** 1000 ppm

**Irritancy of Product:** Eyes and Skin

**Sensitization of Product:** Possible

**Carcinogenicity:** No **Teratogenicity:** No **Reproductive Toxicity:** No

**Mutagenicity:** No **Synergistic Products:** None

## Section 7 – Preventive Measures

**Personal Protective Equipment:** Ventilation, Glasses, Goggles

**Gloves:** Chemically resistant

**Respiratory:** NIOSH approved Cartridge

**Eye:** Goggles

**Footwear:** None

**Clothing:** None

**Other:** Use in well ventilated area, avoid breathing vapors. Avoid open flame.

**Engineering Controls:** Use in well ventilated areas, avoid breathing vapors. Avoid open flames. Do not heat container. CAUTION: Contents Under Pressure. Do not incinerate.

**Leak and Spill Procedure:** Product evaporates rapidly. Contain within larger gas tight vessel. .

**Waste Disposal:** Recover as a Fluorocarbon Refrigerant.

**Handling Procedures and Equipment:** Avoid breathing vapor. CAUTION: Contents Under Pressure. Keep Out of Reach of Children. Avoid heat or open flame. Do not incinerate.

**Storage Requirements:** Do Not Store above 50 C or in direct sunlight.

**Special Shipping Information:** Consumer Commodity, ORM-D, Level I Aerosol (Non-Flammable).

## Section 8 – First Aid Measures

**Skin:** Wash with soap and water. If irritation develops, call Physician.

**Eyes:** Remove contact lens. Flush with water for 15 minutes. If irritation persists, seek medical attention.

**Inhalation:** Remove to fresh air. Provide oxygen if not breathing. Get immediate medical attention.

**Ingestion:** Drink large amounts of water. Do not induce vomiting. Call Physician.

## Section 9 – Preparation Date of MSDS

**Prepared By:** John Pastorello **Phone Number:** 714-870-8361 **Date:** 04-04-07