

AUG 22 1994

# MATERIAL SAFETY DATA SHEET

6020-230

**Manufacturer's Name** : THE RAMSEY COMPANY  
**Address** : 24020 S. Frampton Avenue  
Harbor City, CA 90710

**HMIS Rating**  
**Health** 1  
**Flammability** 0  
**Reactivity** 1

**Telephone Number** : (310) 534-4622  
**Emergency Telephone** : (800) 228-5635 Ext. 118  
**Contact Person** : Peter Batchelder  
**Date Prepared** : October, 1990  
**Date Revised** : May, 1993

## IDENTITY

**Common Name** FREEZE OUT

**Proper Shipping Name; Hazard Class; Hazard ID No.:**  
Chlorodifluoromethane; Non-flammable Gas; UN 1018

## INGREDIENT INFORMATION

| Principal Hazardous Component(s) | CAS No. | %   | Threshold Limit              |
|----------------------------------|---------|-----|------------------------------|
| Chlorodifluoromethane            | 75-45-6 | 100 | TLV/PEL:1000ppm;STEL:1250ppm |

**SARA Title III Section 313 and 40 CFR Part 372 Notification:**  
Ingredients in this product are not currently subject to notification

## PHYSICAL & CHEMICAL CHARACTERISTICS

**Boiling Point** -41.4°F    **Specific Gravity** 1.194    **Vapor Density** 3.03 @ 25°C (77°F)  
**Vapor Pressure** 151 psia @ 25°C (77°F)    **Evaporation Rate** (CCl4 = 1) >1.0  
**Percent Volatile by Volume** 100    **Solubility in Water** 0.30 wt % @ 25°C (77°F)  
**Appearance and Odor** Aerosol product (colorless); slight ethereal odor  
**Flash Point** ND    **Flammability Limits/% Volume In Air:** LEL: NA    UEL: NA  
**Extinguisher Media** As appropriate for combustibles in area  
**Special Fire Fighting Procedures** Self-contained breathing apparatus is required if containers rupture or contents are released under fire conditions.  
**Unusual Fire and Explosion Hazards** Extinguishant for other burning material in area is sufficient to stop burning. Use water or fog to cool containers. Containers may rupture under fire conditions. Decomposition may occur.

## REACTIVITY DATA

**Stability** Stable    **Conditions to Avoid** Avoid open flames and high temperatures.  
**Incompatibility** Alkali or alkaline earth metals  
**Hazardous Decomposition Products** Hydrochloric and hydrofluoric acids, additional chemicals may be formed in small amounts  
**Hazardous Polymerization** Will Not Occur  
**Conditions to Avoid** None known to The Ramsey Company

ND=Not Determined, NE=Not Established, NA=Not Applicable

## HAZARD DATA

**Signs and Symptoms of Exposure** Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death. Intentional misuse can be fatal. Overexposure to the vapors by inhalation may include temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness. Skin contact with liquid may cause frostbite. Pre-existing diseases of the central nervous or cardiovascular system may have increased susceptibility to the toxicity of excessive exposures.

**Chemicals Listed as Carcinogens or Potential Carcinogens**

None

### Emergency and First Aid Procedures

- 1. Inhalation** Immediately remove to fresh air. If breathing has ceased, administer artificial respiration. Seek immediate medical attention. Use oxygen as necessary.
- 2. Eyes** Flush with water for at least 15 minutes. Call a physician.
- 3. Skin** Wash off with soap and water. Treat for frostbite if necessary. Call a physician.
- 4. Ingestion** If swallowed, ingestion is not considered a potential route of exposure.

**NOTE TO PHYSICIAN:** Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

## SPECIAL PROTECTION INFORMATION

**Respiratory Protection** None required if good ventilation is maintained. If exposure may exceed occupational exposure limits, use a NIOSH approved self-contained breathing apparatus.

**Ventilation** Local exhaust when large amounts are released.

**Protective Gloves** Where hand contact is possible, wear chemical resistant gloves.

**Eye Protection** Where eye contact is likely to occur, wear chemical splash goggles.

## SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

**Handling and Storage** Use good personal hygiene practice. Wash contaminated clothing and equipment before reuse. Avoid breathing vapor. Avoid contact with skin or eyes. Keep away from heat and flame. Use with adequate ventilation. Do not puncture or incinerate can.

**Release or Spill** Before attempting clean-up, refer to Hazard Data above. Ventilate area, especially low places where heavy vapors might collect. Consult local regulatory agency for proper disposition of material.

**Waste Disposal** Do not puncture or incinerate containers. Reclaim by distillation. Dispose of this material and container in accordance with federal, state, and local regulations.

The information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions. Any use of the product which is not in conformance with this data sheet or which involves using the product in combination with any other product or any other process is the responsibility of the user.