MATERIAL SAFETY DATA SHEET

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.