

# MATERIAL SAFETY DATA SHEET

## R-123

### SECTION 1 - COMPANY IDENTIFICATION/CHEMICAL PRODUCT

Recycler: Refrigerants, Inc.  
2575 W. Barberry Pl.  
Denver, CO 80204  
303-629-1222

Prepared by: Refrigerants, Inc.  
INFOTRAC  
EMERGENCY RESPONSE # (800) 535-5053  
Date Prepared: 10-14-98

Corporate MSDS Number: MSDSRI23

Formula: CHCl<sub>2</sub>CF<sub>3</sub>

CAS Name: 2, 2-dichloro-1, 1, 1-trifluoroethane (HCFC-123)

### SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Material	CAS Number	%
* ETHANE, 2,2-DICHLORO-I, I, 1- TRICHLORO (HCFC 123)	306-83-2	100

\* Disclosure as a toxic chemical is required under Section 313 of Title 11I of the Superfund Amendments and

Reauthorization Act of 1986 and 40 CFR part 372.

### SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	: 27.6 C (81.7 F) @ 760 mm Hg	pH	: Neutral
Vapor Pressure	: 13 psia at 25 deg C (77 deg F)	Odor	: Slight ethereal
Vapor Density	: 5.3 (Air = 1)	Form	: Liquid
Density	: 1.46 g/cm <sup>3</sup> at 25 deg C (77 deg F)	% Volatiles	: 100WT%
Evaporation Rate	: <1 (CCl <sub>4</sub> =1)	Color	: Clear, Colorless
Solubility in Water	: 0.39 WT% @25 C (77 deg F)		

### SECTION 4 - FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : None Method

Flammable limits in Air, % by volume

LEL : None UEL: None

Fire and Explosion Hazards:

Use water spray or fog to cool containers. Drums may rupture under fire conditions. Decomposition may occur. Self-contained breathing apparatus (SCBA) is required if cylinders rupture or discharge under fire conditions.

Extinguishing Media: As appropriate for combustibles in area.

### SECTION 5 - HAZARDS IDENTIFICATION

Potential Health Effects:

Inhalation of high concentrations of vapor is harmful and may cause heart irregularities, unconsciousness, or death. Intentional misuse or deliberate inhalation may cause death without warning. Vapor reduces oxygen available for breathing and is heavier than air. Liquid contact can cause frostbite. May cause eye irritation.

Health Effects:

Human health effects of overexposure by eye contact with the vapor may include eye irritation with discomfort, tearing, or blurring of vision. Skin contact with the liquid may cause frostbite. Inhalation of the vapors may cause temporary nervous system depression with anesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness; temporary alteration of the heart's electrical activity with irregular pulse, palpitations, or inadequate circulation, or the effects of exclusion of oxygen with grossly excessive exposures (>2%).

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1 % are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

### EMERGENCY AND FIRST AID PROCEDURES:

**Inhalation:** If inhaled, immediately remove to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Skin Contact:** In case of contact, flush skin with water. Treat for frostbite if necessary by gently warming affected area. Call a physician.

**Eye Contact:** In case of contact, immediately flush eyes with water for at least 15 minutes. Call a physician. **Ingestion:** Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Consult a physician if necessary.

Notes to Physician:

THIS MATERIAL MAY MAKE THE HEART MORE SUSCEPTIBLE TO ARRHYTHMIAS. Because of a possible disturbance of cardiac rhythm, catecholamine drugs, such as epinephrine, should only be used with special caution in situations of emergency life support.

## SECTION 6- STABILITY AND REACTIVITY

Chemical Stability: Material is stable. However, avoid open flames and high temperatures.

Incompatibility with other Materials: Incompatible with alkali or alkaline earth metals - powdered Al, Zn, Be, etc.

Polymerization: Polymerization will not occur.

Other hazards

Decomposition: Decomposition products are hazardous. R-123 Refrigerant can be decomposed by high temperatures (open flames, glowing metal surfaces, etc.) forming hydrochloric and hydrofluoric acids and possibly carbonyl halides.

## SECTION 7- CONTROL AND PROTECTIVE MEASURES

Engineering Controls: Normal ventilation for standard manufacturing procedures is generally adequate. Keep container tightly closed. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places.

Personal Protective Equipment: Impervious gloves and chemical splash goggles should be used when handling liquid. Under normal manufacturing conditions, no respiratory protection is required when using this product. Self-contained breathing apparatus (SCBA) is required if a large release occurs.

Exposure Guidelines "SUVA"-123

Refrigerant

PEL (OSHA): None established

TLV (ACGIH): None established

## SECTION 8- HANDLING/STORAGE/WASTE DISPOSAL

Waste disposal method: Comply with Federal, State, and local regulations. Reclaim by distillation or remove to a permitted waste facility.

Handling: Avoid breathing vapors and liquid contact with the skin and eyes. Use with sufficient ventilation to keep employee exposure below recommended limits. Do not allow product to contact open flame or electrical heating elements because dangerous decomposition products may form.

Storage: Clean, dry area. Do not heat above 52 deg C (126 deg F).

Accidental Release Measures: Ventilate area, especially low or enclosed places where heavy vapors might collect.

Do not flush into sewers. Dike spill. Collect on absorbent material and transfer to steel drums for recovery or disposal. Use self-contained breathing apparatus (SCBA) for large spills.

## SHIPPING INFORMATION

Shipping Containers: Tank Cars, Tank Trucks, Pails and Drums

NOT REGULATED AS A HAZARDOUS MATERIAL BY DOT OR IMO.

U.S. FEDERAL REGULATIONS

TSCA Inventory Status : Reported/Included

TITLE III HAZARDOUS CLASSIFICATIONS SECTIONS 311,312

Acute : Yes Fire : No

Chronic : Yes Reactivity: No

Pressure : No

HAZARDOUS CHEMICAL LISTS

SARA Extremely Hazardous Substance -No

CERCLA Hazardous Substance -No

SARA Toxic Chemical - See components section

## OTHER INFORMATION

NFP A, NPCA-HMIS

NPCA-HMIS Rating

Health : 1

Flammability : 0

Personal Protection rating to be supplied by user depending on use condition.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.