

MATERIAL SAFETY DATA SHEET

R-12

SECTION 1 - COMPANY IDENTIFICATION/CHEMICAL PRODUCT

Recycler: Refrigerants, Inc. Prepared by: Refrigerants, Inc.
2575 W. Barberry Pl. INFOTRAC
Denver, CO 80204 EMERGENCY RESPONSE # (800) 535-5053
303-629-1222 Date Prepared: 11-28-09
Corporate MSDS Number: MSDSR12 Formula: CC12F2

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
* METHANE, DICHLORODIFLUORO- (R-12)		100

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

SECTION 3 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	: -29.8 C (-21.6 F)	pH	
Vapor Pressure	: 94.5 psia at 25 deg C (77 deg F)	Odor	
Vapor Density	: 4.26 (Air = 1.0) at 25 deg C (77 deg F)	Form	: Neutral
Density: 1.315 g/cc at 25 deg C (77 deg F) - Liquid		% Volatiles	: Slight ethereal
Solubility in Water	: 0.028 WT% 25 C (77 F at 1 atm)	Color	: Liquified gas
SECTION 4 - FIRE FIGHTING MEASURES			: 100WT%
Flammable Properties			: Clear, colorless

Flash Point	: Will not burn
Flammable limits in Air, % by volume	
LEL	: Not applicable
UEL	: Not applicable

Fire and Explosion Hazards:

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

Individuals with preexisting diseases of the central nervous or cardiovascular system may have increase susceptibility to the toxicity of excessive exposures.

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 high concentrations are 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.

Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion: Ingestion is not considered a potential route of exposure.

Notes to Physician:

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. "FREON" 12 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. 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

METHANE, DICHLORODIFLUORO - ("FREON" 12)

PEL (OSHA) : 1,000 ppm, 4,950 *mg/m³*, 8 hr. TWA

TLV (ACGIH) : 1,000 ppm, 4,950 *mg/m³*, 8 hr. TWA, A4

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 (personnel): Use with sufficient ventilation to keep employee exposure below recommended limits.

Storage: Clean, dry area. Do not heat above 52 deg C (125 deg F).

Accidental Release Measures: Ventilate area, especially low or enclosed places where heavy vapors might collect. Remove open flames. Use self-contained breathing apparatus (SCBA) for large spills.

SHIPPING INFORMATION

DOTIIMO

Proper Shipping Name : DICHLORODIFLUOROMETHANE Hazard Class DOTIIMO Label Shipping
Containers : 2.2
Tank Cars : NONFLAMMABLE GAS
Cylinders
Reportable
Quantity

U.S. FEDERAL REGULATIONS

TSCA Inventory Status : Reported/Included

TITLE III HAZARDOUS CLASSIFICATIONS SECTIONS 311,312

Acute : Yes

Fire : No

Chronic : No

Reactivity: No

Pressure : Yes

HAZARDOUS CHEMICAL LISTS

SARA Extremely Hazardous Substance

-No

CERCLA Hazardous Substance

- Yes

SARA Toxic Chemical

- See Components Section

Superfund reportable discharge = 5000 lbs.

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating

Health : 1

Flammability : 0

Reactivity : 1

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.