

NATIONAL REFRIGERANTS INC -- NATIONAL REFRIGERANT 12 -- 6830-00-935-9895

===== Product Identification =====

Product ID:NATIONAL REFRIGERANT 12  
MSDS Date:06/01/1988  
FSC:6830  
NIIN:00-935-9895  
MSDS Number: BNRGM  
=== Responsible Party ===  
Company Name:NATIONAL REFRIGERANTS INC  
Address:89 WATER STREET  
City:BRIDGETON  
State:NJ  
ZIP:08302-2545  
Country:US  
Info Phone Num:609-455-4555  
Emergency Phone Num:MED  
609-455-4555 CHEM 800-424-9300  
Preparer's Name:T NAPRAVE  
CAGE:4J994  
=== Contractor Identification ===  
Company Name:NATIONAL REFRIGERANTS INC  
Address:661 KENYON AVE  
Box:City:BRIDGETON  
State:NJ  
ZIP:08302  
Country:US  
Phone:800-262-0012/215-698-6620  
CAGE:4J994

===== Composition/Information on Ingredients =====

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)  
CAS:75-71-8  
RTECS #:PA8200000  
Fraction by Wt: 100%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9192

EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS  
Ozone Depleting Chemical:1

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL RAT LD50 IS 1000 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION IF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL ANDF MAY CAUSE HEART IRREGULARITITES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSE MAY BE FATAL. VAPOR RE DUCES OXYGEN AVAILABLE FOR BREATHING AND IS HEAVIER THAN AIR. LIQUID CONTACT CAUSESS FROSTBITE.  
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.  
Effects of Overexposure:EYE: IRRITATION, SKIN: LIQUID CONTACT CAUSES FROSTBITE. INHALED: RESPIRATORY DISTRESS, HEART IRREGULARITIES, CNS DEPRESSION, HEADACHE CONFUSION. INGESTED: UNLIKELY EXPOSURE.  
Medical Cond Aggravated by Exposure:SUPPLIER DID NOT ADDRESS THIS FIELD.

===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICAL RESPIRATION, PREFERREDLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN. SKIN: FLUSH WITH WATER. TREAT FOR FROSTBITE IF NECESSARY. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER. CALL A PHYSICIAN. IF SWALLOWED: NOT LIKELY TO BE HAZARDOUS. CONSULT A PHYSICIAN.

===== Fire Fighting Measures =====

Flash Point:NON-FLAMMABLE  
Lower Limits:NONE  
Upper Limits:NONE  
Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.  
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS, IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.  
Unusual Fire/Explosion Hazard:USE WATER SPRAY OR FOG TO COOL CONTAINERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

===== Accidental Release Measures =====

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Spill Release Procedures:VENTILATE AREA-ESPECIALLY LOW PLACES WHERE  
HEAVY VAPORS MIGHT COLLECT. WEAR SELF-CONTAINED BREATHING APPARATUS  
FOR LARGE SPILLS. REMOVE OPEN FLAME.

Neutralizing Agent:NO INFORMATION GIVEN ON MSDS BY SUPPLIER

===== Handling and Storage =====

Handling and Storage Precautions:NO INFORMATION GIVEN ON MSDS BY  
SUPPLIER

Other Precautions:NONE

===== Exposure Controls/Personal Protection =====

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO  
RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT.  
SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A SPILL OCCURS.  
Ventilation:NORMAL VENT FOR STD MFR PROCEDURES IS ADEQUATE. LARGE AMTS:  
LOCAL EXHAUST. MECHANICAL VENT USED IN LOW PLACES.

Protective Gloves:LINED BUTYL

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:NO INFORMATION GIVEN ON MSDS BY SUPPLIER

Work Hygienic Practices:NO INFORMATION GIVEN  
ON MSDS BY SUPPLIER

Supplemental Safety and Health

MSDS RECEIVED FROM NAVY (FOCAL POINT N). NAVY IDENTIFIED NSN.

===== Physical/Chemical Properties =====

HCC:G3

Boiling Pt:B.P. Text:-30F,-34C

Decomp Temp:Decomp Text:>1400F,>760

Vapor Pres:94.5 PSIA

Vapor Density:4.26

Spec Gravity:1.315 (LIQUID)

pH:NEUT

Solubility in Water:0.28%

Appearance and Odor:CLEAR, COLORLESS LIQUIFIED GAS, SLIGHT ETHEREAL  
ODOR

Percent Volatiles by Volume:100

Corrosion Rate:UNKNOWN

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

ALKALI, OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid: AVOID OPEN FLAMES, HIGH TEMPERATURES.

Hazardous Decomposition Products: MAY DECOMPOSED BY HIGH TEMP (OPEN FLAME, GLOWING SURFACES) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS, CARBONYL CHLORIDE

Conditions to Avoid Polymerization: WILL NOT OCCUR.

===== Disposal Considerations =====

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Waste Disposal Methods: COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS, OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. RECLAIM BY DISTILLATION.

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