

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

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Hazards Identification
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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 R
EDUCES 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.

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First Aid Measures
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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.

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Fire Fighting Measures
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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.

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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 =====

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atory 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 =====

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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