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

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: TNAPRAVE

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 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

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICAIAL RESPIRATION, PREFFERABLY MOUTH-TO-MOUTH. IFBREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN. SKIN: FLUSH WITH WATER. TREAT FOR FR OSTBITE IF NECESSARY. EYES: IMMEDIATELYFLUSH WITH PLENTY OF WATER. CALL AP PHYSIUCIAN. IF SWALLOWED: NOT LIKELY TO BE HAZARDOUS. CONSULT A PHYSICIAN.

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g	Measures	=========	

Flash Point: NON-FLAMMABLE

Lower Limits:NONE Upper Limits:NONE

FIELD.

Extinguishing Media: AS APPROPRIATE FOR COMBUSTABLES 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 SPRAAY 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 ========

Respir

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 GIVE

N 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:UNKNOWNN

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

document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.