

NATIONAL REFRIGERANTS, INC -- NATIONAL REFRIGERANT II -- 6830-00-281-3036

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

Product ID:NATIONAL REFRIGERANT II
MSDS Date:06/01/1988
FSC:6830
NIIN:00-281-3036
MSDS Number: BLKXR
=== Responsible Party ===
Company Name:NATIONAL REFRIGERANTS, INC
Address:11401 ROOSEVELT BLVD.
City:PHILADELPHIA
State:PA
ZIP:19154
Country:US
Info Phone Num:609-455-4555
Emergency Phone Nu
m:609-455-4555/800-424-9300 CHEMTREC
Preparer's Name:T. NAPRAVA
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:TRICHLOROFLUOROMETHANE (CFC-11) (SARA III)
CAS:75-69-4
RTECS #:PB6125000
Other REC Limits:NONE SPECIFIED
OSHA PEL:1000 PPM
ACGIH TLV:C, 1000 PPM; 9293
E

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

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

LD50 LC50 Mixture:ORL:>3725MG/KG-RAT;LC50 RAT 26200PPM/4HR
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: VAPOR IS HEAVIER THAN AIR
AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR
BREATHING. BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE
LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, & MAY LEAD TO
NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. SKIN:
NOT A CORROSIVE OR IRRITANT;
Effects of Overexposure:HOWEVER, REPEATED OR PROLONGED LIQUID CONTACT
CAN CAUSE DEFATTING OF SKIN.
Medical Cond Aggravated by Exposure:SKIN DISEASE: PRODUCT CAN DISSOLVE
THE NATURAL OIL OF THE SKIN, THEREFORE DERMATITIS MAY BE EXPECTED
TO RESULT FROM REPEATED CONTACT. PRE-EXISTING SKIN DISORDERS.

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

First Aid:INHALATION: REMOVE TO FRESH AIR, CALL PHYSICIAN. IF NOT
BREATHING, GIVE CPR, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS
DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS.
EYE: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES W/PLENTY OF WATER
FOR AT LEAST 15 MINUTES. CALL A PHYSICIAN. SKIN: CLEANSE AFTER USE.

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

Flash Point Method:TOC
Flash Point:NONE
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS MAY BE
REQUIRED IF DRUMS RUPTURE AND CONTENTS ARE SPILLED UNDER FIRE
CONDITIONS.
Unusual Fire/Explosion Hazard:DRUMS MAY RUPTURE UNDER FIRE CONDITIONS.

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

Spill Release Procedures:VENTILATE AREA. DO NOT FLUSH INTO SEWERS. DIKE
SPILL. COLLECT ON ABSORBENT MATERIAL & TRANSFER TO STEEL DRUMS FOR
RECOVERY OR DISPOSAL. COMPLY W/FEDERAL, STATE A

ND LOCAL REGULATIONS
OR REPORTING RELEASES.

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Handling and Storage
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Handling and Storage Precautions:STORE IN A CLEAN, DRY AREA. DO NOT
HEAT ABOVE 125 F.

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Exposure Controls/Personal Protection
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Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO
RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT.
SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF A SPILL
OCCURS.

Ventilation

:NORMAL VENT IS GENERALLY ADEQUATE. USE LOCAL EXHAUST WHEN
LARGE AMTS RELEASED. USE MECHANICAL VENT IN LOW PLACES.

Protective Gloves:BUTYL GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES

Supplemental Safety and Health

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Physical/Chemical Properties
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HCC:G3

Boiling Pt:B.P. Text:75.0F,23.9C

Vapor Pres:.7PSIG@77F

Vapor Density:4.9

pH:NEUTRL

Evaporation Rate & Reference:0.1 (CC14=1)

Solubility in Water:0.1% BY WT @ 77 F

Appearance and Odor:COLORLESS LIQU

ID; SLIGHT ETHERAL ODOR.

Percent Volatiles by Volume:100

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Stability and Reactivity Data
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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 AND HIGH TEMPERATURES.

Hazardous Decomposition Products:HIGH TEMPS (OPEN FLAMES, GLOWING
SURFACES, ETC.) FORMING HYDROCHLORIC & HYDROFLUORIC ACIDS-POSSIBLE
CARBONYL HALIDES.

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Disposal Considera
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tions =====

Waste Disposal Methods:EPA HAZARDOUS WASTE NO. U121; F001; F002. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY.

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