

NATIONAL REFRIGERANTS INC -- CHLORODIFLUOROMETHANE,REFRIGERANT 22 --
6830-00-935-9896

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

Product ID:CHLORODIFLUOROMETHANE,REFRIGERANT 22

MSDS Date:09/01/1991

FSC:6830

NIIN:00-935-9896

MSDS Number: CHQKR

=== Responsible Party ===

Company Name:NATIONAL REFRIGERANTS INC

Address:11401 ROOSEVELT BLVD

City:PHILADELPHIA

State:PA

ZIP:19154

Country:US

Info Phone Num:215-834

-0200

Emergency Phone Num:215-834-0200

Preparer's Name:T. NAPRAVA

CAGE:7Y146

=== Contractor Identification ===

Company Name:NATIONAL REFRIGERANTS INC

Address:11401 ROOSEVELT BLVD

Box:City:PHILADELPHIA

State:PA

ZIP:19154

Country:US

Phone:215-834-0200

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

Ingred Name:CHLORODIFLUOROMETHANE (SARA 313) (CERCLA)

CAS:75-45-6

RTECS #:PA6390000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1

000 PPM; 9495

Ozone Depleting Chemical:2

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

LD50 LC50 Mixture:ORAL LD50: 1000 MG/KG IN RATS

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION-HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE LIGHT-HEADEDNESS, SHORTNESS OF BREATH, HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. VAPOR IS HEAVIER THAN AIR AND MAY REDUCE OXYGEN AVAILABLE FOR BREATHING.

Effects of Overexposure:INHALATION, INGESTION, SKIN, OR EYE- MAY INITIALLY INCLUDE: TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANAESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION AND LOSS OF CONSCIOUSNES S. HIGHER EXPOSURES MAY LEAD TO TEMPORARY ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, ETC.

Medical Cond Aggravated by Exposure:INDIVIDUALS WIHT PREEEXISTING DISEASES OF THE CENTRAL NERVOU S SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSEPTABILTIY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:EYES- IMMEDIATELY FLUSH WITH PLENTY OF WATER. CALL A PHYSICIAN. SKIN- FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION IS PERSISTANT. INHALATION- REMOVE TO FRESH AIR, KEEP CALM. ASSIS T WITH BREATHING SUPPORT MEASURES IF NEEDED. INGESTION- DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

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

Flash Point:NONE

Extinguishing Media:UE EXTINGUISHING MEDIA AS APPROPRIATE FOR COMBUSTABLES.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS(SCBA) IS REQUIRED IF CYLINDERS RUPTURE & CONTENTS ARE RELEASED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:USE WATER SPRAY OR FOG TO COOL CNTNRS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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Accidental Release Measures =====

Spill Release Procedures: VENTILATE AREA. USE SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CASE OF LARGE SPILLS. COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS ON REPORTING RELEASES.

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

Other Precautions: NONE

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

Respiratory Protection: UNDER NORMAL USE, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS CHEMICAL.

Ventilation: NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE.

Protective Gloves: BUTYL GLOVES.

Eye Protection: CHEMICAL SPLASH GOGGLES.

Other Protective Equipment: NONE

Supplemental Safety and Health
NONE

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

HCC: G3

Boiling Pt: B.P. Text: -41F, -41C

Decomp Temp: Decomp Text: 1170F, 632C

Vapor Pres: 151 @ 77F

Vapor Density: SUPPLEMENT

Spec Gravity: SUPPLEMENTAL

pH: NEUTRA

Evaporation Rate & R

ference: >1, CCL4=1

Solubility in Water: 0.30 @ 77F, SLIGHT

Appearance and Odor: CLEAR, COLORLESS, LIQUIFIED GAS, SLIGHTLY ETHEREAL.

Percent Volatiles by Volume: 100

===== 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: HYDROCHLORIC AND HYDROFLUORIC ACID AND POSSIBLE CARBONYL HAL

IDES.

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

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. DO NOT VENT TO ATMOSPHERE.

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