

NATIONAL REFRIGERANTS,INC. -- DICHLORODIFLUOROMETHANE -- 6830-01-355-4011

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

Product ID:DICHLORODIFLUOROMETHANE

MSDS Date:09/01/1995

FSC:6830

NIIN:01-355-4011

MSDS Number: BYHBM

=== Responsible Party ===

Company Name:NATIONAL REFRIGERANTS,INC.

Address:11401 ROOSEVELT BOULEVARD

Box:NONE

City:PHILADELPHIA

State:PA

ZIP:19154

Country:US

Info Phone Num:215-834-0200

Emerg

ency Phone Num:215-834-0200

Preparer's Name:M. BEATTY / G. WILSON

CAGE:7Y146

=== Contractor Identification ===

Company Name:DDRV STOCK MAINTENANCE DIV/DDRV-H

Address:8000 JEFFERSON-DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297

Country:US

Phone:804-279-3125

CAGE:02LX8

Company Name:NATIONAL REFRIGERANTS INC

Address:11401 ROOSEVELT BLVD

Box:City:PHILADELPHIA

State:PA

ZIP:19154

Country:US

Phone:215-834-0200

CAGE:7Y146

===== 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:LC50 (RAT) = 800,000 MG/KG 15 MIN.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

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

Health Hazards Acute and Chroni

c:INHALATION:VAPOR IS HEAVIER THAN AIR

AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. INTENTIONAL MISUSE CAN BE FATAL. SKIN/EYE: IRRITATION AND FROSTBITE.

Explanation of Carcinogenicity:NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH, FROSTBITES.

Medical Cond Aggravated by Exposure:INDIVIDUALS W/PREEXISTING DISEASES

OF THE CENTRAL NERVOUS SYSTEM OR CARDIOVASCULAR SUSTEM MAY HAVE INCREASED SUSCEPTABILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

First Aid:IF IRRITATION PERSISTS OR IS SEVERE, GET MEDICAL ATTENTION.

EYE:FLUSH W/WATER FOR 15 MIN. SKIN:WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING & LAUNDER BEFORE REUSE. INHALED:REMOVE FROM EXPOSURE. A ID OR RESTORE BREATHING AS NEEDED. INGESTED:NO SPECIFIC INTERVENTIO

N IS INDICATED AS THE COMPOUND IS N OTLIKEL TO BE

HAZARDOUS BY INGESTION. DO NOT INDUCE VOMITING. CALL PHYSICIAN.

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

Flash Point:NONE

Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR COMBUSTIBLES.

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

Unusual Fire/Explosion Hazard:USE WATER SPRAY OR FOG TO COOL CONTAIN

ERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS.  
DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures: VENTILATE AREA. USE SELF-CONTAINED BREATHING APPARATUS IN CASE OF LARGE SPILLS. COMPLY W/FEDERAL, STATE & LOCAL REGULATIONS ON REPORTING RELEASES.

Neutralizing Agent: MFR GAVE NO INFORMATION ON MSDS.

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

Handling and Storage Precautions: MFR GAVE NO INFORMATION ON MSDS.

Other Precautions: WARNING! CONTAINS CFC12, A SUBSTANCE WHICH HARMS PUBLIC HEALTH & ENVIRONMENT BY DESTROYING OZONE IN THE UPPER ATMOSPHERE. OZONE DEPLETION POTENTIAL = 1.0

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

Respiratory Protection: UNDER NORMAL USE NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS CHEMICAL. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A LARGE SPILL OR RELEASE OCCURS.

Ventilation: NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURE IS

GENERALLY ADEQUATE. USE LOCAL EXHAUST IF LARGE AMOUNT RELEASED

Protective Gloves: BUTYL GLOVES FOR PROLONGED/REPEATED CONTACT

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: MFR GAVE NO INFORMATION ON MSDS.

Work Hygienic Practices: MFR GAVE NO INFORMATION ON MSDS.

Supplemental Safety and Health  
NONE

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

HCC: G3

NRC/State Lic Num: NONE

Boiling Pt: B.P. Text: -22F, -30C

Decomp Temp: Decomp

Text: 1400F, 760C

Vapor Pres: 94.5 PSIA

Vapor Density: 2.33 LB/FT<sup>3</sup>

pH: NEUT

Evaporation Rate & Reference: >1 (CCL<sub>4</sub>=1)

Solubility in Water: 0.028%

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

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

ALKALI, ALKALINE EARTH METALS (POWDERED AL, ZN, BE ETC.)

Stability Condition to Avoid: OPEN FLAMES & HIGH TEMPERATURES

Hazardous Dec

Composition Products:DECOMPOSED BY HIGH TEMPERATURES (OPEN  
FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND  
HYDROFLUORIC ACIDS.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:COMPLY W/FEDERAL, STATE & LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The U  
nited States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.