

DU PONT E I DE NEMOURS AND CO INC -- FREON 12 FLUOROCARBON -- 6830-00-292-0133

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

Product ID:FREON 12 FLUOROCARBON

MSDS Date:05/01/1989

FSC:6830

NIIN:00-292-0133

MSDS Number: BDVNS

==== Responsible Party ====

Company Name:DU PONT E I DE NEMOURS AND CO INC

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Num:800-441-9450

Emer

gency Phone Num:800-441-3637

Preparer's Name:K.P. BROWN

CAGE:18873

==== 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:DU PONT E I DE NEMOURS AND CO INC PETROCHEMICALS DEPT

Address:1251 BRANDYWINE BLDG

Box:City:WILMINGTON

State:DE

ZIP:19898

Phone:302-773-5676

CAGE:73925

Company Name:E.I. DUPONT DE NEMOURS & CO

Address:1007 MARKET STREET

B

ox:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515;800-441-9442

CAGE:18873

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: 100.0%

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

O

zone Depleting Chemical:1

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

LD50 LC50 Mixture:LC 50 RAT 800,000 PPM/30 MIN

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

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

Health Hazards Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS OF

VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES,
UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSE CAN BE FATAL. LIQUID
CONTACT CAN CAUSE FROSTBITE. MAY CAUSE EYE I

RRITATION.

Explanation of Carcinogenicity:DATA PER MSDS

Effects of Overexposure:EYE IRRITATION WITH DISCOMFORT, TEARING, OR

BLURRING OF VISION. SKIN CONTACT MAY RESULT IN FROSTBITE. INHALING
MAY CAUSE TEMPORARY NERVOUS SYSTEM DEPRESSION WITH DIZZINESS,
HEADACHE, CONFUSION, INCOORDINATION, AND LOSS OF CONSCIOUSNESS.
EXCESSIVE EXPOSURES MAY CAUSE HEART AND CIRCULATORY IRREGULARITIES.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING

DISEASES OF THE CENTRAL NERVO

US OR CARDIOVASCULAR SYSTEM MAY HAVE
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid: INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. EYE: FLUSH WITH WATER. SKIN: FLUSH WITH WATER. IF IRRITATION PERSISTES, GET MEDICAL ATTENTION. ORAL: GET MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING AS THE HAZARD OF ASPIRATING INTO THE LUNGS IS TOO GREAT.

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

Flash Point: NONE

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

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

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

Spill Release Procedures: VENTILATE AREA. DO NOT FLUSH INTO SEWERS. DIKE SPILL. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS ON REPORTING RELEASES.

Neutralizing Agent: NONE

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

Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED, LOW FIRE RISK AREA. PROTECT FROM PHYSICAL DAMAGE. AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED.

Other Precautions: AVOID PROLONGED OR REPEATED CONTACT WITH MATERIAL. DO NOT ATTEMPT TO HANDLE BROKEN/DAMAGED CONTAINERS WITHOUT PROTECTIVE EQUIPMENT. COMPRESSED GAS UNDER PRESSURE: DO NOT HEAT ABOVE 125F.

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

Respiratory Protection: NONE

REQUIRED FOR ADEQUATELY VENTED WORK

SITUATIONS. FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, USE A SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR, APPROVED BY NIOSH.

Ventilation: PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER.

Protective Gloves: BUTYL RUBBER, PVA OR NEOPRENE

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment: FULL SKIN AND EYE PROTECTION, APRON, EYE WASH

Work Hygienic Practices: REMOVE AND WASH CLOTHING PROMPTLY UPON

CONTAMINATION.

Supplemental Safety and Health

NONE

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

HCC:G3

Boiling Pt: B.P. Text: -21.6F/-29C

Vapor Pres: 94.5

Vapor Density: 4.26

Spec Gravity: 1.311

pH: NEUTR.

Solubility in Water: 0.028

Appearance and Odor: CLEAR, COLORLESS LIQUEFIED GAS; SLIGHT ETHEREAL ODOR.

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: HIGH TEMPERATURES AND OPEN FLAMES

Hazardous Decomposition Products: HYDROCHLORIC AND HYDROFLUORIC

ACIDS-POSSIBLY CARBONYL HALIDES. DECOMPOSED BY HIGH TEMPERATURES(OPEN FLAMES, HOT METAL)

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

Waste Disposal Methods: COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY.

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