

E.I. DU PONT DE NEMOURS & CO, INC. -- FREON 12 -- 7930-01-179-7236

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Product Identification  
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Product ID:FREON 12

MSDS Date:04/01/1988

FSC:7930

NIIN:01-179-7236

MSDS Number: BLJZB

=== Responsible Party ===

Company Name:E.I. DU PONT DE NEMOURS & CO, INC.

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-9450

Emergency Phone Num:800-441-3637/800-424-9300 CHEMTREC

Preparer'

s Name:DU PONT CO.

CAGE:18773

=== Contractor Identification ===

Company Name:DU PONT

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-9442

CAGE:25827

Company Name:E.I. DU PONT DE NEMOURS & CO., INC.

CAGE:18773

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Composition/Information on Ingredients  
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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: 800,000 PPM-RAT; ORAL ALD: 1000 \*\*  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION MAY CAUSE HEART  
IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE CAN BE  
FATAL. VAPOR REDUCES OXYGEN AVAIL FOR BREATHING & IS HEAVI  
ER THAN  
AIR. LIQUID CONTACT CAN CAUSE FROSTBITE . OVEREXPOSURE BY  
INHALATION, INGESTION, SKIN, EYE CONTACT MAY CAUSE: TEMP NERVOUS  
SYSTEM DEPRESSION W/ANESTHETIC\*\*\*  
Explanation of Carcinogenicity:\*\*MG/KG-RAT.  
Effects of Overexposure:\*\*\*EFFECTS SUCH AS DIZZINESS, HEADACHE,  
CONFUSION, INCOORDINATION & LOSS OF CONSCIOUSNESS; TEMPORARY  
ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE,  
PALPITATIONS OR INADEQUATE CIRCULATION OR THE EFFECTS OF EXCLUSION  
OF OX  
YGEN W/GROSS OVEREXPOS. SIGNIFICANT SKIN PERMEATION AFTER  
CONTACT APPEARS LIKELY.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE  
ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS  
DIFFICULT, GIVE OXYGEN. CALL PHYSICIAN. SKIN: FLUSH W/WATER. TREAT  
FOR FROSTBITE IF NECESSARY. EYE: IMMEDIATELY FLUSH EYES W/PLENTY  
OF WATER. CALL PHYSICIAN. INGESTION: NOT LIKELY TO BE HAZARDO  
US BY  
INGESTION: HOWEVER, CONSULT PHYSICIAN IF NECESSARY.

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

Flash Point:NR  
Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.  
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED  
IF CYLINDERS RUPTURE AND CONTENTS ARE RELEASED UNDER FIRE  
CONDITIONS.  
Unusual Fire/Explosion Hazard:USE WATER SPRAY OR FOG TO COOL  
CONTAINERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS.  
DECOMPOSITION M

AY OCCUR.

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

Spill Release Procedures: VENTILATE AREA-ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SCBA FOR LARGE SPILLS.

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

Handling and Storage Precautions: AVOID BREATHING VAPORS AND LIQUID CONTACT WITH SKIN OR EYES. USE ONLY IN WELL-VENTILATED AREA.  
Other Precautions: STORE IN A CLEAN, DRY AREA. DO NOT HEAT ABOVE 125 F.

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

Respiratory Protection: NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A LARGE RELEASE OCCURS.  
Ventilation: LOCAL EXHAUST SHOULD BE USED WHEN LARGE AMOUNTS ARE RELEASED. MECHANICAL VENTILATION SHOULD BE USED IN LOW PLACES.  
Protective Gloves: LINED BUTYL GLOVES  
Eye Protection: CHEMICAL SPLASH GOGGLES  
Supplemental Safety and Health

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

Boiling Pt: B.P. Text: -22F, -30C  
Decomp Temp: Decomp Text: >1400F  
Vapor Pres: 94.5 PSIA\*  
Vapor Density: 4.26 @ 25C  
Spec Gravity: 1.315  
pH: NEUT'L  
Solubility in Water: .028WT % @ 1ATM & 25C  
Appearance and Odor: CLEAR, LIQUIFIED GAS; SLIGHT ETHEREAL ODOR.  
Percent Volatiles by Volume: 100  
Corrosion Rate: \* @ 25 C

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

Stability Indicator/Materials to Avoid: YES  
ALKALI OR ALKALINE EA

RTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:FREON R 12 CAN BE DECOMPOSED BY HIGH TEMPS FORMING HYDROCHLORIC & HYDRFLUORIC ACIDS-POSSIBLY CARBONYL HALIDES.

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

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE FACILITY.

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