

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

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

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

===== 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: 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 CIRCULA TION 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 FROSTB ITE 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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th this information by the compiling agencies):

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