

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

==

===== 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.

Disclaimer (provided wi

th this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United 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.