

DU PONT E I DE NEMOURS & CO INC -- DU000025 FREON 22 -- 6830-00-227-0441

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Product Identification  
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Product ID:DU000025 FREON 22

MSDS Date:08/13/1992

FSC:6830

NIIN:00-227-0441

MSDS Number: BYXSG

=== Responsible Party ===

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

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-9442

Emergency Phone

Num:800-441-3637(MEDICAL) OR CHEMTREC

Preparer's Name:W. J. BROCK

CAGE:18873

==== Contractor Identification ====

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

Box:City:WILMINGTON

State:DE

ZIP:19898

Country:US

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

CAGE:18873

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Composition/Information on Ingredients  
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Ingred Name:CHLORODIFLUOROMETHANE  
CAS:75-45-6  
RTECS #:PA6390000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000PPM; 9293  
Ozone Depleting Chemical:2

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

LD50 LC50 Mixture:4-HOUR LC-50 (RAT): 220,000 PPM  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN: POSSIBLE FROSTBITE. POSSIBLE

DEFATTING/DRYNESS W/OVEREXPOSURE. EYES: POSSIBLE IRRITATION,  
TEARING, BLURRY VISION. INHALATION: POS TEMPORARY NERVOUS SYSTEM  
DEPRESSION. HIGHER EXPOSURE MAY TEMPORARILY ALTER HEART ACTIVITY  
W/IRREGULAR PULSE/PALPITATIONS/INADEQUATE CIRCULATION. POSSIBLE  
DEATH W/GROSS OVEREXPOSURE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: DIZZINESS, HEADACHE, CONFUSION,  
INCOORDINATION, LOSS OF CONSCIOUSNESS.

Medical Cond Aggravated by Exposure:PEOPLE W/PREEXISTING DISEASES OF

CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED  
SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:INHALATION: GET FRESH AIR IMMEDIATELY. KEEP CALM. NO BREATH, GIVE  
ARTIFICIAL RESPIRATION. BREATHING DIFFICULT, GIVE OXYGEN. CALL DR. SKIN: FLUSH  
W/LUKE WARM WATER. DON'T USE HOT. IF FROST BITE, CALL DR. EYES:  
IMMEDIATELY FLUSH W/PLENTY WATER 15 MIN. CALL DR. NOT TO DR.: BECAUSE  
POSITIVE DISTURBANCES CARDIAC RHYTHM, CATECHOLAMINE DRUGS (EPINEPHRINE)  
SHOULD ONLY BE USED AS LAST RESORT IN LIFE THREATENING EMERGENCIES.

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

Flash Point Method:TOC

Flash Point:NONE

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

EXTINGUISHANT FOR OTHER BURNING MATERIAL IN AREA IS SUFFICIENT TO STOP  
BURNING.

Fire Fighting Procedures:USE WATER SPRAY/FOG TO COOL CONTAINERS. SCBA  
REQUIRED IF CYLINDERS RUPTURE OR CONTENT

S RELEASED UNDER FIRE  
CONDITIONS.

Unusual Fire/Explosion Hazard:MAY EXPLODE IF EXPOSED TO FIRE.  
DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:REVIEW FIRE EXPLOS HAZ/SAFETY PRECAUTIONS  
BEFORE CLEAN UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIP.  
VENTILATE AREA, ESPEC LOW/ENCLOSED PLACES WHERE VAPORS MAY COLLECT.  
REMOVE OPEN FLAMES. USE SCBA F OR LARGE SPILLS/RELEASES.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:CLEAN, DRY AREA. DON'T HEAT >52C/125F.  
Other Precautions:DON'T MIX PRODUCT W/AIR FOR LEAK TESTING. IN GENERAL  
DON'T USE OR ALLOW TO BE PRESENT W/HIGH CONCENTRATIONS AIR ABOVE  
ATMOSPHERIC PRESSURE. CONTACT W/CHLORINE/OTHER STRONG OXIDIZING  
AGENTS SHOULD ALSO BE AVOIDED.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL MFG COND  
ITIONS. SCBA  
REQUIRED W/LARGE RELEASES.

Ventilation:NORMAL VENT FOR STANDARD MFG ADEQUATE. LOCAL EXHAUST WHEN  
LG AMTS RELEASED. SHOULD USE MECHANCL VENT LOW/CONFINED AREAS.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Work Hygienic Practices:WASH HANDS BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health

NSN IS FOR COMBINATION OF FREON IN CYLINDER. NSN FOR CYLINDER ALONE:  
8120-01-338-6024.

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

HCC:G3

Boiling Pt:B.P. Text:41.4F,5.2C

Melt/Freeze Pt:M.P/F.P Text:NK \*@ 77F

Vapor Pres:151 PSIG\*

Vapor Density:3.0(AIR=1)

Evaporation Rate & Reference:>1 (CCL4=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR, COLORLESS LIQUIFIED GAS; ETHERAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS, EG. ALUMINUM, ZINC, BERYLIUM, ETC.

Stability Condition to Avoid:HIGH TEMPERATURES.

Hazardous Decomposition Products:DECOMP W/HIGH TEMPS (OPEN FLAMES/GLOWING METAL SURFACES) FORMING HYDROCHLORIC/HYDROFLUORIC ACIDS, POS CARBONYL HALIDES.

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

Waste Disposal Methods:DISPOSE IN COMPLIANCE W/APPLICABLE LAWS. RECLAIM BY DISTILLATION OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY.

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