

DU PONT E I DE NEMOURS & CO INC -- FREON 114 (DU001061) -- 6830-00-782-6512
===== Product Identification =====

Product ID:FREON 114 (DU001061)
MSDS Date:10/07/1991
FSC:6830
NIIN:00-782-6512
MSDS Number: BYXTV
=== 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: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

===== Composition/Information on Ingredients =====

Ingred Name:ETHANE, 1,2-DICHLOROTETRAFLUORO-("FREON" 114) (SARA 313)
CAS:76-14-2
RTECS #:KI1101000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMEND

ED
OSHA PEL:1000 PPM, 8 HR TWA
ACGIH TLV:1000 PPM, 8 HR TWA
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:SEE SUPLIMENTAL DATA.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO
Health Hazards Acute and Chronic:SKIN: POS IRRIT/RASH/FROSTBITE. EYES:
IRRITATION/TEARING/BLURRY VISION. INHAL: POS NONSPECIFIC DISCOMFORT
(NAUSEA/HEADACHE/WEAKNESS; TEMPORAR
Y ALTERATION HEART ELECTRICAL
ACTIVITY W/IRREG PULSE/PALPIT ATIONS/INADEQUATE CIRCULATION.) DEATH
POS W/GROSS OVEREXPOS. INTENTIONAL MISUSE/DELIBERATE INHAL MAY
CAUSE DEATH W/O*
Explanation of Carcinogenicity:CONTAINS 2-A [53-96-3]
WHICH IS LISTED BY NTP AND IARC AND REGULATED BY OSHA AS A
CARCINOGEN.
Effects of Overexposure:NK *WARNING. VAPOR REDUCES OXYGEN AVAILABLE
FOR BREATHING & IS HEAVIER THAN AIR.
Medical Cond Aggravated by Exposure:INDIVIDUALS W/PREEXISTIN
G DISEASES
OF CNS, CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO
TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:INHAL: GET FRESH AIR IMMED. KEEP CALM. IF NOT BREATHING GIVE
ARTIF RESP. IF BREATHING DIFFICULT, GIVE OXYGEN. CALL DR. SKIN:
FLUSH W/WATER 15 MIN. IF FROST BITE, WARM AFFECTED AREAS. GET MED
AID IF IR RIT PRESENT. EYES: FLUSH IMMED W/LOTS H2O 15 MIN. CALL
DR. NOTE TO DR.: BECAUSE POS
CARDIAC RHYTHM DISTURBANCE,
CATECHOLANINE DRUGS (EPINEPHRINE) SHOULD BE USED W/SPECIAL CAUTION
IN EMER LIFE SUPPORT.

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

Flash Point Method:TOC
Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.
Fire Fighting Procedures:SCBA REQUIRED IF CYLINDERS RUPTURE/RELEASE
UNDER FIRE CONDITIONS.
Unusual Fire/Explosion Hazard:USE WATER SPRAY/FOG TO COOL CONTAINERS.
CYLINDERS ARE EQUIPPED W/TEMP & PRESSURE RELIEF DE

VICES BUT MAY

STILL RUPTURE UNDER FIRE CONDITIONS. DECOMP POSSIBLE.

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

Spill Release Procedures:REVIEW FIRE EXPLN HAZ/SAFETY PRECAUTIONS BEFORE CLEAN UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIP. VENTILATE AREA, ESPEC LOW PLACES WHERE VAPORS MIGHT COLLECT. USE SCBA FOR LARGE SPILLS. REMOVE OPEN FLAMES. COMPLY W/APPLIC LAWS ON REPORTING RELEASE

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

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Handling and Storage Precautions:STORE CONTAINERS IN COOL, CLEAN DRY AREA. DO NOT ALLOW TEMP TO RISE ABOVE 125F.

Other Precautions:AVOID BREATHING VAPORS. AVOID LIQUID CONTACT W/SKIN/EYES. USE SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. AQUATIC TOXICITY: 96 HR LC50, KILLIFISH = 45 PPM.

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

Respiratory Protection:NOT REQUIRED UNDER NORMAL MFG CONDITIONS. SCBA REQUIRED IF SPILL OCCURS.

Ventilation:NORMAL FOR STANDARD MFG ADEQUATE. LOCAL EXHAUST WHEN LG AMTS RELEASED. MECHANCL VENT SHOULD BE USED IN LOW PLACES.

Protective Gloves:RUBBER,PLASTIC

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:USE GLOVES & FACE SHIELD WHEN HANDLING LIQUID

Supplemental Safety and Health

INHALATION 4-HR ALC = 383,000 PPM RATS. ORAL ALD RATS = >1500 MG/KG.

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

HCC:G3

Boiling Pt:B.P. Text:39.0F,3.9C

Va

por Pres:31PSIA@77F

Vapor Density:6.2 @ 77F

Evaporation Rate & Reference: