

DUPONT CHEMICALS -- FREON 13 REFRIGERANT -- 6830-00-926-2274

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

Product ID:FREON 13 REFRIGERANT

MSDS Date:03/20/1991

FSC:6830

NIIN:00-926-2274

MSDS Number: BNPTB

=== Responsible Party ===

Company Name:DUPONT CHEMICALS

Address:1007 MARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-7515/302-999-5072 (BROCK)

Emergency Phone Num:800-424-

9300; 800-441-3637

Preparer's Name:W J BROCK

CAGE:KO192

=== 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:DUPONT CHEMICALS

Address:1007 MARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Phone:800-441-7515/800-441-3637

CAGE:KO192

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

Ingred Name:METHANE, CHLOROTRIFLUORO- ("FREON" 13 REFRIGERANT)
CA

S:75-72-9
RTECS #:PA6410000
Fraction by Wt: 100%
Other REC Limits:NONE SPECIFIED
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:INHAL 2-HR LC50: >600,000 PPM (RAT)
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:OVEREXPOSURE TO VAPORS BY INHALATION
MAY INCLUDE TEMPORARY NERVOUS SYSTEM DEPRESSION W/ANESTHETIC
EFFECTS. POSSIBLY W/GROSS OVEREXPOSURE (>20%), TEMPORARY ALTERATION
OF
THE HEART'S ELECTRICAL ACTIVITY . EYE OR SKIN CONTACT WITH
LIQUID MAY CAUSE FROSTBITE.
Explanation of Carcinogenicity:NONE OF THE COMPONENTS IN THIS MAT'L IS
LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.
Effects of Overexposure:NERVOUS SYSTEM DEPRESSION ANESTHETIC EFFECTS:
DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF
CONSCIOUSNESS. HEART'S ELECTRICAL ACTIVITY: IRREGULAR PULSE,
PALPITATIONS, INADEQUATE CIRCULATION.
Medical Cond Aggravated by Exposure:INDIVIDUA
LS WITH PREEXISTING
DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:IF LARGE CONCENTRATIONS ARE INHALED: IMMEDIATELY REMOVE TO
FRESH AIR. KEEP PERSONS CALM. IF NOT BREATHING, GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL DR. IN
CASE OF SKIN CONTACT: FLUSH W/WATER. TREAT FOR FROSTBITE IF

NECESSARY. IN CASE OF EYE CONTACT: IMMED FLUSH W/PLENTY OF WATER 15
MIN. CALL DR. NOTE TO PHYSICIAN: BECAUSE OF POSSIBLE DISTURBANCES
OF CARDIAC **

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

Flash Point:WILL NOT BURN
Extinguishing Media:NON FLAMMABLE. AS APPROPRIATE FOR COMBUSTIBLES IN
AREA.
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS (SCBA IS
REQUIRED IF CONTAINERS CYLINDERS RUPTURE OR DISCHARGE UNDER FIRE
CONDITIONS.
Unusual

Fire/Explosion Hazard:USE WATER SPRAY OR FOG TO COOL CNTNRS.
CYLINDERS ARE EQUIPPED W/PRESSURE & TEMP RELIEF DEVICES BUT MAY
RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:REVIEW FIRE & EXPLOS HAZARDS & SAFETY
PRECAUTIONS BEFORE PROCEEDING W/CLEAN UP. USE PERSONAL PROTECT
EQUIP DURING CLEAN UP. VENT AREA, ESPECIALLY LOW PLACES WHERE HEAVY
VAPORS MIGHT COLLECT. REMOVE OP EN
FLAMES. USE SCBA FOR LARGE
SPILLS ORRELEASES.

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

Handling and Storage Precautions:STORE IN CLEAN, DRY AREA. DON'T HEAT
ABOVE 125F. AVOID BREATHING VAPORS & LIQUID CONTACT W/SKIN OR EYES.
USE W/SUFFICIENT VENT TO KEEP BELOW TLV.

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

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO
RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRO
DUCT.
SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF A LARGE
RELEASE OCCURS.

Ventilation:NORMAL VENT FOR STD MFR PROCEDURES IS GEN ADEQUATE. LOCAL
EXHAUST WHEN LRG AMTS ARE RELEASED. MECHAN VENT IN LOW PLACES.

Protective Gloves:LINED BUTYL GLOVES.

Eye Protection:CHEM SPLASH GOGGLES WHEN HANDLING LIQUID

Supplemental Safety and Health

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

Boiling Pt:B.P. Text:-115F,-81C

Decomp Temp:Decomp Text:>1472F,>800

Vapo

r Pres:485 PSIA*

Vapor Density:3.6 @ 25C

Spec Gravity:1.3 G/CC @ -30C

pH:NEUTRL

Evaporation Rate & Reference:>1 (CC14=1.0) * 25 C

Solubility in Water:0.009 WT% @ 25C

Appearance and Odor:COLORLESS, CLEAR LIQUEFIED GAS, SLIGHT ETHEREAL
ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.

Stability Condition to Avoid:AVOID OPEN FLAMES AN

D HIGH TEMPERATURES.

Hazardous Decomposition Products:BY HIGH TEMPS FORMING: HYDROCHLORIC & HYDROFLUORIC ACIDS-POSSIBLY CARBONYL HALIDES.

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

Waste Disposal Methods:RECLAIM BY DISTILLATION OR REMOVE TO WASTE DISPOSAL FACILITY. COMPLY W/FED, STATE OR LOCAL REGULATIONS.

**RHYTHM, CATECHOLAMINE DRUGS (EPINEPHRINE) SHOULD BE USED WITH SPECIAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE SUPPORT.

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