

E I DU PONT DE NEMOURS & CO FREON PRODUCTS DIV -- FREON 502 -- 6830-00-138-2482

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

Product ID:FREON 502

MSDS Date:10/01/1985

FSC:6830

NIIN:00-138-2482

MSDS Number: BDBJB

=== Responsible Party ===

Company Name:E I DU PONT DE NEMOURS & CO FREON PRODUCTS DIV

Address:FREON PRODUCTS DIVISION

City:WILMINGTON

State:DE

ZIP:19898

Info Phone Num:302-774-2421

Emergency Phone Num:302-774-2421

Preparer's Name:T.D.ARMSTRONG

CAGE:B0589

=== Con

tractor 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 DU PONT DE NEMOURS & CO

Address:RAKETSTRAAT, 100, RUE DE LA FUSEE

City:BRUSSEL

Country:BE

Phone:32-(0)15-401.505

CAGE:B0589

Company Name:NATIONAL REFRIGERANTS INC

Address:11401 ROOSEVELT BLVD

Box:City:PHILADELPHIA

State:PA

ZIP:19154

Country:US

Phone:215-834-0200

CAGE:7Y146

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Composition/Information on Ingredients =====

Ingred Name:CHLOROPENTAFLUOROETHANE (SARA III)
CAS:76-15-3
RTECS #:KH7877500
Fraction by Wt: 51.2%
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9192
Ozone Depleting Chemical:1

Ingred Name:CHLORODIFLUOROMETHANE
CAS:75-45-6
RTECS #:PA6390000
Fraction by Wt: 48.8%
OSHA PEL:1000 PPM
ACGIH TLV:1000PPM; 9192
Ozone Depleting Chemical:2

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

LD50 LC50 Mixture:300,000 PPM/2 HR(FC-22; LC50
=RAT)
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHALATION: CAN CAUSE SUFFOCATION BY
REDUCING OXYGEN. MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES,
UNCONSCIOUSNESS OR DEATH. SKIN AND EYE CONTACT MAY CAUSE FROSTBITE.
Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MA CAUSE
LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH AND MAY LEAD TO
NARCOSI CARDIAC IRREGULARITIES,
UNCONSCIOUSNESS OR DEATH.
Medical Cond Aggravated by Exposure:CARDIOVASCULAR DISEASE

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

First Aid:INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT
BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERRABLY MOUTH-TO-MOUTH.
IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRIN OR
SIMILAR DRUGS. EYE: FLUSH WITH WATER, CALL A PHYSICIAN IF
FROSTBITE OCCURS.SKIN: FLUSH WITH WATER. TREAT FOR FROSTBITE IF

NECESSARY.

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

Flash Point Method:TOC
Flash Point:NONE
Lower Limits:NONFLAMMABLE
Upper Limits:NONFLAMMABLE
Extinguishing Media:NONFLAMMABLE
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.
Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED WITH TEMPERATURE A PRESSURE RELIEF DEVICES BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS.DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:VENT AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES.
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORE CNTNR IN CLEAN, DRY AREA. DO NOT HEAT ABOVE 125F.
Other Precautions:NOTE TO PHYSICIANS: BECAUSE OF A POSSIBLE INCREASED RISK OF ELICITING CARDIAC DYSRHYTHMIAS, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE CONSIDERED ONLY AS A LAST RESORT IN LIFE THREATENING EMERGENCIES.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED SCBA IN CASE OF SPILL OR RELEASE.
Ventilation:NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE. LOCAL EXHAUST FOR RELEASE OF LARGE AMTS.
Protective Gloves:LINED NEOPRENE
Eye Protection:CHEM SPLASH GOGGLES
Other Protect

ive Equipment:FULL WORK CLOTHING TO PREVENT REPEATED OR
PROLONG CONTACT.

Work Hygienic Practices:AVOID BREATHING VAPORS AND LIQUID CONTACT WITH
SKIN.

Supplemental Safety and Health
USE IN WELL VENTILATED AREA.

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

HCC:G3

Boiling Pt:B.P. Text:-50F,-45.5C

Vapor Pres:8016

Vapor Density:4.2

Spec Gravity:1.242

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

Percent Volatiles by Volume:100

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===== 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 FLAME AND HIGH TEMPERATURES.

Hazardous Decomposition Products:CAN BE DECOMPOSED BY HIGH TEMPERATURES
(OPE FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC &
FLUORIC ACIDS.

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

Waste Disposal Methods:COMPLY WITH FED
ERAL,STATE AND LOCAL REGULATIONS

OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY. RECLAIM BY
DISTILLATION.

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