

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 N

um:302-774-2421

Preparer's Name:T.D.ARMSTRONG

CAGE:B0589

==== 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 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

Z

IP:19154

Country:US

Phone:215-834-0200

CAGE:7Y146

===== 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, SHORTNES

S 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, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRIN OR SIMILAR DRUGS. EYE: FLUSH WITH WATER, CALL A PHYSICIAN IF FRO

STBITE 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 D

EVICES 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 O
F A POSSIBLE INCREASED
RISK O ELICITING CARDIAC DYSRHYTHMIAS, CATECHOLAMINE DRUGS, SUCH AS
EPINEPHRINE, SHOUL BE CONSIDERED ONLY AS A LAST RESORT IN LIFE
THREATENING EMERGE NCIES.

===== 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 Protective 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. SL

IGHT 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 FLAME AND HIGH TEMPERATURES.

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

===== Disposal Consideratio
ns =====

Waste Disposal Methods:COMPLY WITH FEDERAL,STATE AND LOCAL REGULATIONS
OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY. RECLAIM BY
DISTILLATION.

Disclaimer (provided with 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.