

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

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Product Identification
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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

=== 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

ZIP:19154

Country:US

Phone:215-834-0200

CAGE:7Y146

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Composition/Information on Ingredients
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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

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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, SHORTNE
SS 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
FR

OSTBITE 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 Glove

s: 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. S
LIGHT 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 (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC & FLUORIC ACIDS.

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

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

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