

E.I. DUPONT DE NEMOURS & COMPANY -- FREON 502 -- 6830-00-137-7970

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Product Identification  
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Product ID:FREON 502

MSDS Date:06/01/1988

FSC:6830

NIIN:00-137-7970

MSDS Number: BKYVT

=== Responsible Party ===

Company Name:E.I. DUPONT DE NEMOURS & COMPANY

Address:C&P DEPT., CHESTNUT RUN-709

City:WILMINGTON

State:DE

ZIP:19898

Info Phone Num:(800) 441-9450

Emergency Phone Num:(800) 441-3637

Pre

parer's Name:K.P. BROWN

CAGE:19898

=== 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. DUPONT DE NEMOURS & CO., INC.

Box:1635

CAGE:19898

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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%

Other REC Limits:1000 PP

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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%  
Other REC Limits:1000 PPM  
OSHA PEL:1000 PPM  
ACGIH TLV:1000PPM; 9192  
Ozone Depleting Chemical:2

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN: FROSTBITE. INHALATION: HARM  
FUL,  
HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH, FATAL, NAUSEA,  
HEADACHE, WEKNESS, TEMPORARY NERVOUS SYSTEM DEPRESSION, ANAESTHETIC  
EFFECTS, DIZZINESS/CONFUSION/INCO ORDINATION/LOSS OF  
CONSCIOUSNESS/ALTERATION OF HEARTS ELECTRICAL ACTIVITY W/IRREGULAR  
PULSE & CIRCULATION/PALPITATIONS.

Explanation of Carcinogenicity:NONE  
Effects of Overexposure:SKIN: FROSTBITE. INHALATION: HARMFUL, HEART  
IRREGULARITIES, UNCONSCIOUSNESS, DEATH, FATAL, NAUSEA, HEADACHE,  
WEAKNESS, TEMPO  
RARY NERVOUS SYSTEM DEPRESSION, ANAESTHETIC EFFECTS,  
DIZZINESS/CONFUSION/INC OORDINATION/LOSS OF  
CONSCIOUSNESS/ALTERNATION OF HEARTS ELECTRICAL ACTIVITY W/IRREGULAR  
PULSE/CIRCULATION/PALPITATIONS.

Medical Cond Aggravated by Exposure:DISEASES OF THE CARDIOVASCULAR  
SYSTEM

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

First Aid:EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS. SKIN:  
CLEANS THOROUGHLY. INHALATION: REMOVE TO FRESH AIR. GIVE CPR OR  
OX

YGEN IF NEEDED. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES.  
NOTE TO PH YSICIAN: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE USED W/SPEICAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE SUPPORT.

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Fire Fighting Measures =====

Flash Point:NONE  
Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.  
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF C  
YLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.  
Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED W/TEMPERATURE & PRESSURE RELIEF DEVICES BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS. AUTODECOMPOSITION TEMPERATURE: 1299F.

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Accidental Release Measures =====

Spill Release Procedures:VENTILATE AREA--ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS FOR LARGE SPILL.

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Handling and Storage =====

Handling and Storage Precautions:STORE IN CLEAN, DRY AREA. DON'T HEAT >125F. AVOID BREATHING VAPORS & LIQUID CONTACT W/SKIN. USE IN WELL-VENTILATED AREAS.

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Exposure Controls/Personal Protection =====

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A SPILL OR RELEASE OCCUR  
S.  
Ventilation:LOCAL EXHAUST: WHEN LARGE AMOUNTS ARE RELEASED. MECHANICAL: IN LOW PLACES.  
Protective Gloves:NEOPRENE RUBBER  
Eye Protection:CHEMICAL SPLASH GOGGLES  
Supplemental Safety and Health

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Physical/Chemical Properties =====

Boiling Pt:B.P. Text:-49.8F  
Vapor Pres:169  
Vapor Density:3.92  
Spec Gravity:1.22  
pH:7  
Evaporation Rate & Reference:(CCL4 = 1): >1  
Solubility in Water:0.15% BY WT.  
Appearance and Odor:COLORLESS, CLEAR LIQUEFIED GAS W/SLIGHT ETHER

EAL  
ODOR

Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES

ALKALI, ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM ,  
ETC.

Stability Condition to Avoid:OPEN FLAMES, HIGH TEMPERATURES

Hazardous Decomposition Products:HYDROCHLORIC & HYDROFLUORIC ACIDS, &  
CARBONYL HALIDES

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

Waste Disposal Methods:DISPOSE OF IN ACCORD

ANCE W/LOCAL, STATE, &

FEDERAL REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY  
OR RECLAIM BY DISTILLATION.

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