

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

Prep

Preparer'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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Ingredient Name:CHLOROPENTAFLUOROETHANE (SARA III)

CAS:76-15-3

RTECS #:KH7877500

Fraction by Wt: 51.2%

Other REC Limits:1000 PPM

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 =====
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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: HARMFUL,
UL,
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, TEMPOR
ARY 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 =====
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First Aid:EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS. SKIN:
CLEANS THOROUGHLY. INHALATION: REMOVE TO FRESH AIR. GIVE CPR OR
OXY

GEN 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 CY
LINDERS 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 OCCURS

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 ETHERE

AL

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 ACCORDA

NCE W/LOCAL, STATE, &

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

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