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DU PONT CHEMICALS -- FREON 502 REFRIGERANT -- 6830-00-144-9952

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

Product ID:FREON 502 REFRIGERANT

MSDS Date:09/26/1991

FSC:6830

NIIN:00-144-9952

MSDS Number: BRNGX === Responsible Party ===

Company Name: DU PONT CHEMICALS

Address: CHESTNUT RUN

Box:80709

City:WILMINGTON

State:DE

ZIP:19880-0709

Country:US

Info Phone Num:302-999-5072/800-441-9450

Emergency Phone Num:80

0-424-9300 CHEMTREC/800-441-3637

Preparer's Name:W J BROCK

CAGE:DO217

=== Contractor Identification ===

Company Name: DU PONT CHEMICALS Address: CHESTNUT RUN, P.O.BOX 80709

Box:80709

City:WILMINGTON

State:DE

ZIP:19880-0709

Phone:800-441-3637,800-424-9300(CHEMTREC)

CAGE:DO217

Company Name: DU PONT E I NEMOURS & CO CHEMICALS & PIGMENTS DEPT

Address:1007 MARKET ST Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:800-441-7515

CAGE:23037

===== Composition/Information on Ingredients ===

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Ingred Name:ETHANE, CHLOROPENTAFLUORO ("FREON" 115) (SARA III) (INHALATION 4 HOUR LC50:>800,000 PPM, RAT; ORAL ALD:>1200 MG/KG,RAT)

CAS:76-15-3

RTECS #:KH7877500 Fraction by Wt: 51.2%

Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM 8 HR TWA ACGIH TLV:1000 PPM 8 HR TWA

Ozone Depleting Chemical:1

Ingred Name: METHANE, CHLORODIFLUORO ("FREON" 22) (INHALATION 4 HOUR

LC50: 220,000 PPM, RAT)

CAS:75-45-6

RTECS #:PA6390000 Fraction by Wt: 48.8%

Other REC Limits: NONE SPECIFIED

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SHA PEL:1000 PPM 8 HR TWA ACGIH TLV:1000 PPM 8 HR TWA Ozone Depleting Chemical:2

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

Health Hazards Acute and Chronic:INHAL: HARMFUL, HEART IRREGS, UNCONSCIOUS, DEATH. CONCENTRATING & INHAL: DEATH. TEMPORY NERVOUS SYSTEM DEPRESSN (ANESTHETIC EFFECTS: DIZZY, HEADACHE, CONFUSION, INCOORDINATION, UNCONSCIOUSNESS). ALTER ATION OF HEART'S ELECTRICAL ACTIVITY W/IRREGULAR PULSE, PALPITATIONS, INADEQUATE CIRCULATION.

SKIN: FROSTBITE MAY OCCUR.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING
DISEASES OF THE CENTRAL NERVOUS SYSTEM OF THE CENTRAL NERVOUS
SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY
TO TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. KEEP PERSONS CALM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXY

GEN. CALL PHYSICIAN. SKIN: FLUSH WITH WATER FOR
15 MINUTE S. TREAT FOR FROSTBITE IF NEEDED BY GENTLY WARMING
AFFECTED AREA. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, 15
MIN. CALL DR. INGESTION: INGESTION NOT CONSIDERED A POTENTIAL ROUTE
OF EXPOSURE.

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

Flash Point: WILL NOT BURN

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA. Fire Fighting Procedures: SELF-CONTAINED BREATHING APPARATUS IS REQUIRED

IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.

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

Spill Release Procedures:NOTE: REVIEW FIRE & EXPLOSION HAZARDS & SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. VENT AREA. EXPECIALLY LOW PLACES WHERE VAPOR COLLECT. REMOVE OPEN FLAME. USE SCBA FOR LRG SPILL

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

Hand

ling and Storage Precautions: USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS.

====== 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 SPILL OR RELEASE OCCURS.

Ventilation:NORMAL VENT FOR STD MFR PROCEDURES ADEQUATE. LOCAL EXHAUST WHEN LRG AMT RELEASED.MECH

ANICL VENT FOR LOW/ENCLOSED PLACES.

Protective Gloves:IMPERVIOUS GLOVES IF CONTACT IS POSSIBLE Eye Protection:CHEM SPLASH GOGGLES IF CONTACT POSSIBLE

Supplemental Safety and Health

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

HCC:G3

Boiling Pt:B.P. Text:-45F,-43C

Decomp Temp:Decomp Text:1299F,704C

Vapor Pres:169 PSIA Vapor Density:3.92 @ 77F

pH:NEUTRL

Evaporation Rate & Evaporation R

Solubility in Water: 0.15 WT % @ 25C

Appearance and Odor:CLEAR, ODORLESS,

LIQUIFIED GAS, SLIGHT ETHEREAL ODOR.
Percent Volatiles by Volume:100
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES INCOMPATIBLE WITH ALKALI OR ALKALINE EARTH METALS - POWDERED AL, ZN, BE, ETC.
Stability Condition to Avoid: AVOID OPEN FLAMES AND HIGH TEMPERATURES. Hazardous Decomposition Products: FREON 502 CAN DECOMPOSE BY HIGH TEMP

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HALIDES.

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

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

FORMING: HYDROCHLORIC & HYDROFLUORIC ACIDS, & POSSIBLY CARBONYL

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