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

Product ID:FREON 502 REFRIGERANT

MSDS Date:03/19/1991

FSC:6830

NIIN:00-144-9952

MSDS Number: BNRMT
=== Responsible Party ===
Company Name:DU PONT

Address:1007 MARKET STREET

City:WILMINGTON

State:DE ZIP:19898 Country:US

Info Phone Num:800-441-9450

Emergency Phone Num:800-424-9300/800-441-3637

Preparer's Name:W

J BROCK CAGE:25827

=== Contractor Identification ===

Company Name: DU PONT

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:800-441-9442

CAGE:25827

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

Ingred Name:ETHANE, CHLOROPENTAFLUORO ("FREON" 115) (SARA 313)

CAS:76-15-3

RTECS #:KH7877500 Fraction by Wt: 51.2%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1000 PPM ACGIH TLV:1000 PPM Ozone Depleting Chemical:1

Ingred Name: METHANE, CHLORODIFLUORO

("FREON" 22) CAS:75-45-6

RTECS #:PA6390000 Fraction by Wt: 48.8%

Other REC Limits: NONE SPECIFIED

OSHA PEL:1000 PPM ACGIH TLV:1000 PPM Ozone Depleting Chemical:2

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

LD50 LC50 Mixture:FREON "115" 800,000 PPM/"22" 220,000 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:OVEREXPOS BY INHAL MAY INCLUDE

DISCOMFORT- NAUSEA/HEADACHE/WE

AKNESS/TEMP NERV SYS DEPRESS

W/ANESTHETIC EFFECTS LIKE DIZZINESS/CONFUSION/INCOORDINATION/LOSS OF CONSCIOUSNESS OR W/GROSS OVEREXPOS (>20%), POSS TEMP ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY W/IRREG

PULSE/PALPITATIONS/INADEQ CIRCULATION. MISUSE: DEATH.#

Explanation of Carcinogenicity:N/K #INDIVIDUALS W/PREEXISTING DISEASES
OF THE CENTRAL NERV/CARDIO SYS MAY HAVE INCREASED SUSCEPTIBILITY TO
##

Effects of Overexposure:##TOXICITY EXCESSIVE EXPOSURES. CARDIAC SENSI

TIZATION WAS OBSERVED IN BEAGLE DOGS EXPOSED TO CONCENTRATIONS OF 15% TO 25% "FREON" 115. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING & IS HEAVIER THAN AI R. SKIN CONTACT WITH THE LIQUID CAN CAUSE FROSTBITE. "FREON" 22-TOXICITY IN ANIMALS BY INHAL TO CONC RANGING FROM###

Medical Cond Aggravated by Exposure:N/K ###5 TO 70% INCLUDE EFFECTS ON THE CENTRAL NERV SYS/LIVER/LUNGS/KIDNEYS/SPLEEN/CARDIAC SENSITIZATION/DECREASED BODY WEIGHT GAIN/PARTIAL ANESTHESIA. INCREASE OF

TUMORS IN MALE RATS AT CONC OF####

First Aid:INHAL: IMMED GET FRESH AIR. KEEP CALM. IF BREATH STOP, GIVE ARTIF RESP/IF DIFFICULT, GIVE OXYGEN. CALL DR. SKIN: CLEAN SKIN AFTER USE. EYE: IMMED FLUSH W/WATER. CALL DR. "NOTES TO PHYSICIAN": BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE USED WITH SPECIAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE SUP

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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. Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED WITH TEMPERATURE AND PRESSURE RELIEF DEVICES BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.
========= Accident
al Release Measures ===========
Spill Release Procedures:REVIEW FIRE & EXPLOSION HAZARDS & SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN-UP. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEANING. VENT AREA-ESPEC LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. RMV OPEN FLAMES. USE SCBA FORLG SPILLS.
=========== Handling and Storage ===========
Handling and Storage Precautions:CLEAN, DRY AREA. DO NOT HEAT ABOVE 125 DEGREES F. Other Prec autions:N/K ####50,000 PPM. SLIGHT BUT SIGNIFICANT INCREASE IN DEVELOPMENTAL TOXICITY (EYE MALFORMATIONS, DECREASED FETAL WEIGHTS) OBSERVED IN OFFSPRING OF RATS EXPOSED TO HIGH CONC (50,000
PPM) OF FC-22. HOW EVER NO INDICATION OF ADVERSE####
====== Exposure Controls/Personal Protection ========
Ventilation:NORM VENT-GEN ADEQ. LOCAL EXHAUST SHOULD BE USED WHEN LARGE AMOUNTS ARE RELEASED. MECH VENT SHOULD BE USED IN LOW PLACES Protective Gloves:NEOPRENE RUBBER GLO VES.
Eye Protection:CHEMICAL SPLASH GOGGLES. Other Protective Equipment:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A SPILL OR RELEASE OCCURS. Supplemental Safety and Health
#####EFFECTS ON FEMALE REPRODUCTIVE PERFORMANCE AT CONCENTRATIONS UP TO 50,000 PPM.
========= Physical/Chemical Properties =========
HCC:G3 Boiling Pt:B.P. Text:-50F,-45C Vapor Pres:169 PSIA Vapor Density:3.92 @ 25C Spec Gravity:1.22 pH:NEUTRL Evaporation Rate & Description (CCL4 = 1)

PORT.

.0)
Solubility in Water:0.15 WT% AT 25 C
Appearance and Odor:CLEAR, COLORLESS LIQUIDFIED GAS WITH SLIGHT 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:OPEN FLAMES AND HIGH TEMPERATURES.
Hazardous Decomposition Products:FREON 502 REFRIGERANT CAN BE DECOMP BY HIGH TEMP (OPEN FLAMES/GLOW ME
TAL SURFACES, ETC) FORMING
HYDROCHLORIC AND

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

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

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