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DU PONT E I DE NEMOURS & CO INC -- FREON 22 -- 6830-00-935-9896

Product ID:FREON 22 MSDS Date:08/31/1993 FSC:6830 NIIN:00-935-9896 MSDS Number: BPBZT === Responsible Party === Company Name: DU PONT E I DE NEMOURS & CO INC Address:1007 MARKET STREET Box:1635 City:WILMINGTON State:DE ZIP:19899 Country:US Info Phone Num:800-441-9442 Emergency Phone Num:800-441-3637/ 800-424-9300(CHEMTREC) Preparer's Name:DR. W.J.BROCK CAGE:18873 === 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: EI DUPONT DE NEMOURS & CO, FREON PROD (REPLACED BY 73925) Address:1007 MARKET ST Box:City:WILMINGTON State:DE ZIP:19899 Country:US Phone:800-441-3637-MED 800-424-9300-TRAN CAGE:5P414 Company Name: E.I. DUPONT DE NEMOURS &

CO Address:1007 MARKET STREET Box:City:WILMINGTON State:DE ZIP:19898 Country:US Phone:800-441-7515;800-441-9442 CAGE:18873

Ingred Name:METHANE, CHLORODIFLUOROMETHANE- ("FREON" 22) CAS:75-45-6 RTECS #:PA6390000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED OSHA PEL:1000 PPM-8 HR TWA ACGIH TLV:1000 PPM-8 HR TWA Ozone Depleting Chemical:2

LD50 LC50 Mi xture:INHAL 4-HR LC50: 220,000 PPM (RAT) 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. EYE:IRRIT. INHAL:TEMP CNS DEPRESSION W/ANESTHETIC EFFECTS. CHRONIC:PROLONGED SKIN OVEREXPOSURE MAY CAUSE DEFATTING OR DRYNESS. INHAL: TEMP ALTERATION OF HEART'S ELECTRICAL ACTIVITY W/IR REG PULSE, PALPITATIONS, INADEQUAT CIRCULATION. FATALITY MAY OCCUR FROM GROSS OVEREXPOSURE. Explanat ion of Carcinogenicity: NONE OF THE COMPONENTS IN THIS MATERIAL IS LISTED BY IARC, NTP, OSHA, OR ACGIH AS A CARCINOGEN. Effects of Overexposure:SKIN:INFLAMMATORY REDNESS, SLIGHT PAIN. EYE:REDNESS, DISCOMFORT, TEARING, BLURRING OF VISION. INHAL: DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS. IRREGULAR PULSE, PALPITATINS, INADEQUATE CIRCULATION. DEATH.

Medical Cond Aggravated by Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE CENTRAL NERVOUS OR

CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. KEEP PERSONS CALM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL DOCTOR. SKIN: FLUSH WITH WATER. TREAT FOR FR OSTBITE IF NECESSARY. EYE: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. CALL DOCTOR.

Flash Point Method:TOC

Flash Point:NOT FLAMMABLE

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA. USE WATER SPRAY OR FOG TO COOL CONTAINERS.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE OR CONTENTS ARE RELEASED UNDER FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:FREON 22 CAN BE CONBUSTIBLE @ PRESSURES AS LOW AS 60SPIG @ AMBIENT TEMP WHEN MIXED W/AIR @ CONCEN OF 65

VOL%AIR & COMBUST IN PRESENCE OF CERTAIN CON OF CHLORINE

Spill Release Procedures:NOTE: REVIEW FIRE & EXPLOSION HAZARDS & SAFETY PRECAUTIONS BEFORE PROCEEDING W/CLEAN UP. USE PERSONAL PROTECTIVE EQUIPMENT DURING CLEAN UP. VENTILATE AREA. REMOVE OPEN FLAMES. USE SCBA FOR LARGE SPILL S OR RELEASES.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage Precautions:STORE IN CLEAN, DRY AREA. DO NOT HEAT ABOVE 125F. AVOID BREATHING VAPORS & LIQUID CONTACT W/SKIN OR EYES.
Other Precautions:USE WITH SUFFICIENT VENT TO KEEP EMPLOYEES EXPOSURES BELOW RECOMMENDED LIMITS. HCFC-22 SHOULD NOT BE MIXED OR ALLOWED TO BE PRESENT WITH HIGH CONCENTRATIONS OF AIR ABOVE ATMOSPHERIC PRESSURE.

======= Exposure Controls/Personal Protection ==========

Respiratory Protection: REVIEW FIRE & EXPLOSION HAZ & SAFETY P

RECAUTIONS
BEFORE PROCEEDING W/CLEANUP. USE PERSONAL PROTECTIVE EQUIPMT DURING CLEANUP. VENTILATE AREA. FREON HEAVIER THAN AIR & WILL DISPLACE OXYGEN. REMOVE OPEN FLAMES. USE SCBA FOR LG SPILLS OR RELEA
Ventilation:NORMAL VENTILATION FOR STD MFG PROCEDURES IS ADEQUATE. USE LOCAL EXHAUST FOR LG AMT OF RELEASE & MECHANICAL FOR LOW AMTS
Protective Gloves:LINED BUTYL GLOVES.
Eye Protection:CHEM SPLASH GOGGLES FOR HANDLING LIQUID.
Other Protective Equipment:NONE SPECIFIED BY MANUFACT
URER.
Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING.
Supplemental Safety and Health LIQ DESITY=1.194G/CM3 @25C.

HCC:G3 Boiling Pt:B.P. Text:-41F,-41C Melt/Freeze Pt:M.P/F.P Text:1170F,632C Decomp Temp:Decomp Text:1170F,632C Vapor Pres:151 PSIG Vapor Density:3.03 @ 25C Spec Gravity:1.194 G/CC @25C pH:NEUTRA Evaporation Rate & amp; Reference:>1 (CC14=1.0) Solubility in Water:NEGLIGIBLE Appearance and Odor:CLEAR, COLORLESS LIQUEFIED GAS, SLIGHT ETHERAL ODOR. Percent Volatiles by Volume:100

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, HIGH TEMPERATURES AND GLOWING METAL SURFACES.

Hazardous Decomposition Products:BY HIGH TEMPERATURES FORMING: HYDROCHLORIC & HYDROFLUORIC ACI

DS--POSSIBLY CARBONYL HALIDES.

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

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