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

Product ID: FREON 22 MSDS Date:10/05/1996 FSC:6830 NIIN:00-935-9896 MSDS Number: CDZWC === Responsible Party === Company Name: DU PONT E I DE NEMOURS & CO INC Address:1007 MARKET STREET Box:1635 **City:WILMINGTON** State:DE ZIP:19898 Country:US Info Phone Num:800-441-7515/MSDS 302-992-3511 **Emergency Phone** Num:800-441-3637/800-424-9300(CHEMTREC) Preparer's Name: (CORP MSDS#:DU000025) CAGE:18873 === Contractor Identification === 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 Company Name: ELF ATOCHEM NORTH AMERICA INC Address:2000 MARKET STREET Box:City:PHILADELPHIA State:PA ZIP:19103-3222 Country:US Phone:800-245-5858 CAGE:86460

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

Ingred Name: CHLORODIFLUOROMETHANE (SARA 313) (CERCLA) CAS:75-45-6 RTECS #:PA6390000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM: 9596 **Ozone Depleting Chemical:2** LD50 LC50 Mixture: NONE SPECIFIED BY MANUFACTURER. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: HIGH VAP CONCEN INHAL HARMFUL, MAY CAUSE HEART IRREGULARITIES, UNCONSC, DEATH. VAP REDUCES OXY AVAI FOR BREATH, HEAVIER THAN AIR. LIQ CONTACT CAN CAUSE FROSTBITE.SKIN:FROSTBITE.PROL OVEREXPO DEFATTING, DRYNE SS.EYE:IRRIT W/DISCOMFT, TERRING, BLURINGVISION. INHAL: TEMP NERV SYS DEPRESS W/ANESTHETIC EFFECTS.HIGHER EXPO MAY (SUPPLE) Explanation of Carcinogenicity: PER MSDS: NONE OF COMPO PRESENT IN MATL @CONCEN =/>0.1% LISTED BY IARC/NTP/OSHA/ACGIH AS CARCINOGEN. Effects of Overexposure: HI VAP CONCEN I NHAL HARMFUL, HEART IRREGULARITIES, UNCONSC, DEATH, REDUCES OXY AVAI FOR BREATHING.FROSTBITE.SKIN DEFATTING.DRYNESS.EYE IRRIT W/DISCOMFORT, BLURING VISION, TEARING. TEMP NERV SYS DEPRESS(DIZZ, HEAD, CONFUSION, INCOORD, UNCONSC). TEMP ALTER HEART ELECTRICAL ACTIVITY, IRREG PULS, PALPITATION, INADQ CIRCULATION, FATALITY. Medical Cond Aggravated by Exposure: INDIVIDUALS W/PRE-EXISTING DISEASES OF CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCR SUSCEPTIBILITY TO TOXICITY OF EXCESS IVE EXPOSURES.

First Aid:INHAL:IMMED REMOVE TO FRESH AIR.KEEP PERSON CALM.NOT BREATH GIVE ART RESP;DIFFI BREATH GIVE OXY.CALL DR.SKIN:FLUSH W/LUKEWARM WATER.DONT USE HOT WATER.FROSTBITE OCCURRED CALL DR.EYE:IMEMD FLUSH W/PLEN TY OF WATER FOR @LEAST 15MINS.CALL DR.INGEST:NOT CONSIDERED POTENTIAL ROUTE OF EXPOSURE.DR:BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM CATECHOLAMINE DRUGS(EPINEPHREINE)SHOULD O NLY BE USED(SUPP) Flash Point:WILL NOT BURN Autoignition Temp: Autoignition Temp Text: 632C Lower Limits:NP Upper Limits:NP Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.EXTINGUISHANT FOR OTHER BURNING MATL IN AREA IS SUFFICIENT TO STOP BURNING. Fire Fighting Procedures: USE WATERSPRAY/FOG TO COOL CNTNRS.SELF-CONTAINED BREATHING APPARATUS (SCBA) REQUIRED IF CYLINDERS RUPTURE OR CONTENTS ARE RELE ASED UNDER FIRE CONDITIONS. Unusual Fire/Explosion Hazard:CYL MAY RUPTURE UNDER FIRE CONDITIONS.DECOMPO MAY OCCUR.OTHE RBURNING MATLS MAY CAUSE HCFC22 TO BURN WEAKLY.CHLORODIFLUOROMETHANE NOT FLAMM @AMBT TEMP/ATM (SUP) Spill Release Procedures: REVIEW MSDS BEF CLEANUP. USE APPROPRIATE PPE.VENTI AREA.REMOVE OPN FLAMES.USE SCBA FOR LG SPILL/RELEASE. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. _____ Handling and Storage Precautions: USE W/SUFFI VENTI TO KEEP WORKER EXPO BEL RECOMMENDED LIMITS.PROD SHOULDNT BE MIX W/AIR FOR LEAK TEST.SHOULDNT BE USED/ALLOW W/HI AIR CONCEN >ATM PRES Other Precautions: INTENTIONAL MISUSE/DELIBERATE INHAL MAY CAUSE DEATH W/O WARNING.CONTACT W/CHLORINE/STRONG OXIDZING AGENTS SHOULD BE AVOIDED.STORAGE:CLEAN DRY AREA.DONT HEAT >52C(125F).

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

Respiratory Protection:UNDER NORMAL MFG CONDITIONS NO RESPIRATORY PROTECTION REQUIRED WHEN USING PRODUCT.SELF-CONTAINED BREATHING APPARATUS (SCBA) REQUIRED IF LARGE RELEASE OCCURS. Ventilation:NORMAL VENTI FOR STD MFG PROCEDURES GEN ADEQU.LOC EXHAU USED WHEN LG AMTS RELEASAED.MECH VENTI USED IN LOW/ENCLOSE PLACE Protective Gloves:IMPERVIOUS GLOVES Eye Protection:CHEMICAL SPLASH GOGG Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER. Work Hygienic Practices:NONE SPECIF HCC:G3 Boiling Pt:B.P. Text:-41F,-41C M elt/Freeze Pt:M.P/F.P Text:NP Decomp Temp:Decomp Text:NP Vapor Pres:151PSIG Vapor Density:3.03 Spec Gravity:1.194G/CM3 pH:NEUTRA Viscosity:NP Evaporation Rate & amp; Reference:>1, CCL4=1 Solubility in Water:0.3%, SLIGHT Appearance and Odor:CLEAR, COLORLESS, LIQUIFIED GAS, SLIGHT ETHEREAL Percent Volatiles by Volume:100 Corrosion Rate:NP

Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS-POWDERED AL,ZN,BE ,ETC. Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES. Hazardous Decomposition Products:DECOMPO PROD HAZ.CAN BE DECOMPO BY HIGH TEMPS(OPN FLAME,GLOWING METAL SURFACES,ETC)FORMS HCL & HF ACIDS,CARBONYL HALIDES

Waste Disposal Methods:COMPLY W/FED/STATE/LOC REGULATIONS.RECLAIM BY DISTILLATION OR REMOVE TO PERMITTED WAASTE DISPOSAL FACILITY.

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ling agencies):

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