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DU PONT E I DE NEMOURS AND CO INC, CHEM. FLUOROCH. -- HFC 134 A,VT 1505,R-134 A -- 6830-01-390-9622

Product ID:HFC 134 A,VT 1505,R-134 A MSDS Date:04/12/1996 FSC:6830 NIIN:01-390-9622 Status Code:A **MSDS Number: CHZCJ** === Responsible Party === Company Name: DU PONT E I DE NEMOURS AND CO INC, CHEM. FLUOROCH. Address:1007 NARKET STREET City:WILMINGTON State:DE ZIP:1 9898 Country:US Info Phone Num:800-441-9442/7515 Emergency Phone Num:800-441-3637/800-424-9300(CHEMTREC) CAGE:2S827 === Contractor Identification === Company Name: CONTRACTED OPERATIONS LOUISVILLE PACKAGING Address:7753 NATIONAL TURNPIKE Box:UNKNOW City:LOUISVILLE State:KY ZIP:40214 Country:US Phone:502-363-8000/2663 CAGE:089V0 Company Name: DU PONT FLUOROPRODUCTS Address:1007 MARKET STREET Box:City:WILMINGTON State:DE ZIP:19898 Country:US Phone:1-800-441-7515 CAGE:2S827 Company Name: E.I. DUPONT D

E 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:1,1,1,2-TETRAFLUOROETHANE CAS:811-97-2 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Ha zards Acute and Chronic: TARGET ORGANS: EYE, SKIN, CNS, RESPIRATORY TRACT, HEART. ACUTE- OVEREXPOSURE BY INHALATION TO VERY HIGH CONCENTRATIONS MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID CONTACT/ESCAPING VAPORS CAN CAUSE EYE AND SKIN FROSTBITE. INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE. CHRONIC- UNKNOWN. Explanation of Carcinogenicity:NONE Effects of Overexposure: FROSTBITE, ASPHYXIATION, IRRITATION, HEART **IRREGULARITIES, UNCONSCIOUSNE** SS, DEATH Medical Cond Aggravated by Exposure: INDIVIDUALS WITH PRE-EXISTING DISEASES OF THE CENTRAL NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH WARM WATER FOR 15 MINUTES. CALL PHYSICIAN. INHALED: REMOVE TO FRESH AIR. PROVIDE OXYGEN/CPR IF NEEDED. SKIN: TREA T FOR

POSSIBLE FROSTBITE USING WARM WATER (105F), THENFLUSH SKIN WITH WATER. ORAL: UNLIKELY TO OCCUR. NOTE TO PHYSICIAN: CATECHOLAMINE DRUGS SHOULD BE USED WITH SPECIAL CAUTION ONLY IN EMERGENCY LIFE SUPPORT.

Flash Point:NONE Autoignition Temp:Autoignition Temp Text:>1369F Lower Limits:NOT RELEVANT Upper Limits:NOT RELEVANT Extinguishing Media: WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUND ING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS. Fire Fighting Procedures: WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard: CYLINDERS MAY RUPTURE. DECOMPOSITION MAY OCCUR FORMING TOXIC GASES. Spill Release Procedures: WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. SPILLS AND RELEASES MAY HAVE TO BE REPORTED TO AUTHORITIES. Neutralizing Agent:NOT RELEVANT Handling and Storage Precautions: STORE IN COOL, VENTILATED, DRY AREA AWAY FROM DIRECT SUNLIGHT, FLAMES AND INCOMPATIBLE MATERIALS. PROTECT CYLINDERS AGAINST PHYSICAL DAMAGE. Other Precautions: AVOID BREATHING VAPORS, AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION. DO NOT MIX WITH AIR FOR LEAK TESTING ABOVE ATMOSPHERIC PRESSURE. K EEP OUT OF REACH OF CHILDREN. Respiratory Protection:NOT NORMALLY REQUIRED. WEAR NIOSH-APPROVED

Respiratory Protection:NOT NORMALLY REQUIRED. WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE OR SUPPLIED-AIR RESPIRATOR IF A LARGE RELEASE OCCURS. Ventilation:NORMAL VENTILATION. LOCAL EXHAUST NE EDED WHEN LARGE AMOUNTS ARE RELEASED. Protective Gloves:LINED BUTYL WHEN HANDLING LIQUID Eye Protection:CHEMICAL SPLASH GOGGLES WHEN HANDLE LIQ. Other Protective Equipment:EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health

HCC:G3 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:-16F,-27C Vapor Pres:49 63 @ 77F Vapor Density:3.6 Spec Gravity:1.21 LIQUID Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:GAS Solubility in Water:0.15% @ 25C/77F Appearance and Odor:COLORLESS LIQUEFIED GAS - FAINT ETHEREAL ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES
FRESHLY ABRADED ALUMINUM SURFACES, CHEMICALLY ACTIVE METALS: POTASSIUM, CALCIUM, POWDERED ALUMINUM, MAGNESIUM, ZINC
Stability Condition t
o Avoid:OPEN FLAME, HIGH TEMPERATURES, GLOWING
METAL SURFACES, LIGHTED CIGARETTES, OXYGEN OR AIR (ABOVE ATMOSPHERIC PRESSURE)
Hazardous Decomposition Products:MAY FORM HYDROGEN FLUORIDE AND POSSIBLY CARBONYL FLUORIDE.

Waste Disposal Methods:DISPOSAL MUST COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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