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E. I. DU PONT DE NEMOURS & CO. INC. -- FREON(R) 12 FLUOROCARBON -- 6830-00-424-9580

Product ID:FREON(R) 12 FLUOROCARBON MSDS Date:05/01/1989 FSC:6830 NIIN:00-424-9580 MSDS Number: BGVQT === Responsible Party === Company Name: E. I. DU PONT DE NEMOURS & CO. INC. Address:1251 BRANDYWINE BLDG City:WILMINGTON State:DE ZIP:19898 Country:US Info Phone Num:800-441-9450 F mergency Phone Num:800-441-3637 Preparer's Name:K. P. BROWN CAGE:18897 === 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: E. I. DU PONT DE NEMOURS & CO. (INC) CAGE:18897 Ingred Name: DICHLORODIFLUOROMETHANE (SARA III) CAS:75-71-8 RTECS #:PA8200000 Fraction by Wt: 1 00% OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9192 EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS **Ozone Depleting Chemical:1** LD50 LC50 Mixture:ORAL LD50 (RAT) = >1000MG/KG Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: ACUTE: A MILD EYE IRRITANT. INHALATION MAY CAUSE CNS AND NARCOSIS. HIGH CONCENTRATIONS MAY CAUSE **IRREGULARITIES, UNCO**

 NSCIOUSNESS, OR DEATH. REPEATED INGESTION CAUSED SLIGHT LIVER EFFECTS AND SLIGHT DE CREASE IN WEIGHT GAIN. CONTACT WITH LIQUID MAY CAUSE FROSTBITE. CHRONIC: NONE SPECIFIED BY MANUFACTURER. Explanation of Carcinogenicity:NOT LISTED BY IARC, NTP, OSHA AS A CARCINOGEN. Effects of Overexposure:EYE: TEARING, BLURRED VISION AND IRRITATION. SKIN: FROSTBITE.INHALATION: TEMPORARY CNS DEPRESSION WITH ANAESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION AND
LOSS OF CONSCIOUSN ESS, IRREGULAR PULSE. Medical Cond Aggravated by Exposure:PEOPLE WITH PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO TOXICITY OF EXCESSIVE EXPOSURES.
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First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. KEEP VICTIM QUIET, DO NOT GIVE STIMULANTS. NARCOTIC EFF ECT. DENSE VAPORS MAY REMA IN IN LUNGS. MAY CAUSE MILD IRRITATION. EYE: FLUSH IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER PROMPTLY. GET MEDICAL ATTENTION.
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 Flash Point:WILL NOT BURN Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA. Fire Fighting Procedures:SCBA IS REQUIRED IF CYLINDERS RUPTURE AND CONTENTS ARE RELEASED UNDER FIRE C ONDITITONS. Unusual Fire/Explosion Hazard:USE WATER SPRAY OR FOG TO COOL CONTAINERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.
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Spill Release Procedures:VENTILATE AREA-ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SCBA FOR LARGE SPILLS. Neutralizing Agent:NONE
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Handling and Storage P

recautions:STORE IN A COOL, DRY, WELL-VENTILATED LOCATION, AWAY FROM ANY AREA WHERE THE FIRE HAZARD MAY BE ACUTE. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

Other Precautions: EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUES. DO NOT BREATH DUST, VAPOR, MIST OR GAS. DO NOT GET IN EYES OR ON SKIN.

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

Respiratory Protection:SELF-CONTAINED, SUPPLIED AIR. Ventilation:LOCAL EXHAUST RECOMMENDED TO CONTROL VAPORS BELOW 50% OF

TLV.

Protective Gloves:LINED BUTYL GLOVES

Eye Protection: CHEMICAL SAFETY GOGGLES & FACE SHIELD.

Other Protective Equipment: APRON AND WORK CLOTHING TO MINIMIZE EXPOSURE. EYE WASH STATION & SAFETY SHOWER RECOMMENDED.

Work Hygienic Practices: WASH THOROUGHLY AFTER USE AND BEFORE EATING,

SMOKING OR USING TOILET FACILITIES. DO NOT BREATH VAPORS OR MIST. Supplemental Safety and Health

INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS,

OR DEATH. INTENTIONAL MISUSE

CAN BE FATAL. VAPORS REDUCES OXYGEN AVAILABE FOR BREATHING AND I S HEAVIER THAN AIR. LIQUID CONTACT CAN CAUSE FROSTBITE.

HCC:G3 Boiling Pt:B.P. Text:-22F,-30C Vapor Pres:94.5 Vapor Density:4.26 Spec Gravity:1.315 pH:NEUT. Solubility in Water:0.028 WT. % Appearance and Odor:CLEAR, COLORLESS LIQUEFIED GAS WITH SLIGHT ETHEREAL ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC. Stability Condition to Avoid:HIGH TEMPERATURES AND OPEN FLAMES Hazardous Decomposition Products:HYDROGEN FLUORIDE, HYDROGEN CHLORIDE, AND POSSIBLY CARBONYL HALIDES.

Waste Disposal Methods:BEST TO RECYCLE OR RECLAIM, IF POSSIBLE. CONSULT FEDERAL, STATE, OR LOCAL AUTHORITIES FO

R PROPER DISPOSAL PROCEDURES.

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