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DU PONT E I DE NEMOURS AND CO INC -- FREON 12 FLUOROCARBON -- 6830-00-106-1656

Product ID:FREON 12 FLUOROCARBON

MSDS Date:05/01/1989

FSC:6830

NIIN:00-106-1656

MSDS Number: BCYVW === Responsible Party ===

Company Name: DU PONT E I DE NEMOURS AND CO INC

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE ZIP:19899 Country:US

Info Phone Num:800-441-9450

Emer

gency Phone Num:800-441-3637 Preparer's Name:K.P. BROWN

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

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

Ingred Name:DICHLORODIFLUOROMETHANE (SARA III)

CAS:75-71-8

RTECS #:PA8200000 Fraction by Wt: 100% OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9192

EPA Rpt Qty:5000 LBS

DOT

Rpt Qty:5000 LBS Ozone Depleting Chemical:1 ========== Hazards Identification ================ LD50 LC50 Mixture:4 HOUR LC50 RATS IS 800,000 PPM Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL AND MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSE CAN BE FATAL. LIQUID CONTACT CAN CAUSE FROSB ITE. MAY CAUSE EYE I RRITATION. Explanation of Carcinogenicity:FREON 12 IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA. Effects of Overexposure: EYE IRRITATION WITH DISCOMFORT, TEARING, OR BLURRING OF VISION. SKIN CONTACT MAY RESULT IN FROSTBITE. INHALING MAY CAUSE TEMPORARY NERVOUS SYSTEM DEPRESSION WITH DIZZINESS, HEADACHE, CONFUSION, INCOOR DINATION, AND LOSS OF CONSCIOUSNESS. EXCESSIVE EXPOSURES MAY CAUSE HEART AND CIRCULATORY IRREGULARITIES. Medical Cond Aggravated by Exposure: INDIVIDUALS WITH PREEXISTING DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES. First Aid:EYE:FLUSH W/ WATER 15 MIN HOLD LIDS OPEN SEE A DOCTOR. SKIN:WASH WITH SOAP & WATER, TREAT FOR FROST-BITE IF NEEDED. INHALED: REMOVE TO FRESH AIR. RESTORE BREATHING, AS NEEDED. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. INGESTED: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL CARE. IF IRRITATION PERSISTS,OR

IS SEVERE, SEE A DOCTOR.

Flash Point: NON-FLAMMABLE

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: USE WA

CONTAINERS. CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.
========= Accidental Release Measures ==========
Spill Release Procedures:VENTILATE AREA. DO NOT FLUSH INTO SEWERS. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL. Neutralizing Agent:NONE
============= Handling and Storage =============
Handling and Storage Precautions:STORE IN A CLEAN, COOL, DRY A ND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED. Other Precautions:TANK-CLEANING PERSONNEL SHOULD USE ONLY FORMAL TANK ENTRY PROCEDURE BASED ON RECOGNIZED SAFETY PRINCIPLES. APPLY ALL SAFETY PRECAUTIONS TO EMPTY CONTAINERS AS THEY MAY CONTAIN PRODUCT RESIDUES/VAPORS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:RESPIRATOR WILL NOT NORMALLY BE NECESSARY. USE NIOSH/MSHA APPROV ED AIR SUPPLIED RESPIRATOR OR SELF CONTAINED BREATHING APPARATUS IF EXPOSURE IS ABOVE THE TLV/PEL. SEE 29 CFR 1910.134 FOR REGULATIONS PERTAINING TO RESPIRATOR USE. Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER. Protective Gloves:LINED BUTYL RUBBER, PVA OR NEOPRENE Eye Protection:SAFETY GLASSES OR SPLASH GOGGLES Other Protective Equipment:USE IMPERVIOUS CLOTHING IF THERE IS DANGER OF REPEATED OR PROL ONGED CONTACT WITH LIQUID. Work Hygienic Practices:USE GOOD CHEMICAL HYGIENE PRACTICE. AVOID CONTACT. REMOVE AND WASH CLOTHING PROMPTLY UPON CONTAMINATION. Supplemental Safety and Health NONE.
=========== Physical/Chemical Properties ===========
HCC:G3 Boiling Pt:B.P. Text:-21.6F/-29C Vapor Pres:94.5 Vapor Density:4.26 Spec Gravity:1.315 (LIQUID) pH:NEUTR. Solubility in Water:0.028 Appearance and Odor:CLEAR,COLORLESS LIQUEFIED GAS;SLIGHT ETHEREAL ODOR Percent Volatiles by V

TER SPRAY OR FOG TO COOL

olume:10	00
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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:HYDROCHLORIC AND HYDROFLUORIC
ACIDS-POSSIBLY CARBONYL HALIDES. DECOMPOSED BY HIGH
TEMPERATURES(OPEN FLAMES, HOT METAL)

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

Waste Disposal Methods:DIS
POSE I/A/W ALL FEDERAL, STATE AND LOCAL
REGULATIONS. MANUFACTURER SUGGESTS THAT RECLAIMATYION BY
DISTILLATION OR DISPOSAL BY A PERMITTED FACILITY.

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