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E. I. DUPONT DE NEMOURS AND COMPANY -- FREON 12 FLUOROCARBON -- 6830-00-264-5913

Product ID:FREON 12 FLUOROCARBON

MSDS Date:09/23/1991

FSC:6830

NIIN:00-264-5913

MSDS Number: BDQLJ === Responsible Party ===

Company Name: E. I. DUPONT DE NEMOURS AND COMPANY

Address:FREON PRODUCTS DIVISION

City:WILMINGTON

State:DE ZIP:19898

Info Phone Num:800-441-3637

Emergency Phone

Num:800-441-3637/800-424-9300(CHEMTREC)

CAGE:73925

=== Contractor Identification ===

Company Name: DDRV STOCK MAINTENANCE DIV/DDRV-H

Address:8000 JEFFERSON-DAVIS HIGHWAY

Box:City:RICHMOND

State:VA ZIP:23297 Country:US

Phone:804-279-3125

CAGE:02LX8

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

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

Ingred Name:D

ICHLORODIFLUOROMETHANE (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:TLV IS 1000 PPM, 4950 MG/M3.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE-INHALE:MAY CAUSE TINGLING SENSAT
ION, HUMMING IN THE AIR, SLURRED SPEECH, AMNESIA, IRREGULAR HEART
BEAT,UNCONSCIOUSNESS OR DEATH.MISUSE CAN BE FATAL.EYE:TEARING,IRRITATION.SKIN:LIQUID MAY CAUSE FROST
BITE.ORAL:LIQUID MAY CAUSE NECROSIS OF LIPS & TONGS,BLANCHING OF
SKIN, PAIN & TENDERNESS. CHRONIC-MAY CAUSE CNS EFFECTS.
Effects of Overexposure:INHALATION MAY CAUSE TINGLING SENSATION, HUMMING IN THE AIR, SLURRED SPEECH, AMNESIA, IRREGULAR HEART BEAT,
UNCONSCIOUSNESS OR DEATH. MISUSE CAN BE FATAL. EYE IRRITATION
&
BLURRED VISION. SKIN EXPOSUR E TO LIQUID MAY CAUSE FROSTBITE. ORALLYLIQUID MAY CAUSE NECROSIS OF LIPS & TONGS, BLANCHING OF SKIN, PAIN & TENDERNESS.
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.
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First Aid:GET MEDICAL ATTENTION IN ALL CASES. EYE:FLUSH WITH WATER FOR
15 MINUTES. HOLD EYELIDS OPEN. SKIN:FLUSH WITH WATER. TREAT FOR
FROSTBITE IF NECESSARY. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:INGESTION IS NOT CONSIDERED A POTENTIAL
ROUTE OF EXPOSURE.
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Flash Point:WILL NOT BURN
Extinguishing Media:WATER, CO2, FOAM OR DRY CHEMICAL. WATER SPRAY MAY
BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL & FLUSH SPILLS AWAY. Fire Fighting Procedures

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE. Unusual Fire/Explosion Hazard:MAY FORM HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND TRACES OF CARBONYL HALIDES. CYLINDERS MAY BE RUPTURED UNDER FIRE CONDITIONS.
======== Accidental Release Measures =========
Spill Release Procedures:KEEP UPWIND. VENTILATE ENCLOSED SPACES UNTIL GAS IS DISPERSSED. DO NOT SMOKE OR OPE RATE INTERNAL COMBUSTION ENGINES IN IMMEDIATE VICINITY.
============ Handling and Storage ==============
Handling and Storage Precautions:STORAGE-STORE IN COOL, DRY PLACE. CYLINDERS ARE UNDER PRESSURE. KEEP AWAY HEAT & INCOMPATIBLE MATERIALS.
Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION. NEVER USE IN CONFINED OR CLOSED SPACE
====== Exposure C ontrols/Personal Protection =========
Respiratory Protection:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE OR SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. Ventilation:LOCAL EXHAUST/MECHANICAL Protective Gloves:CLOTH-LINED RUBBER GLOVES Eye Protection:SAFETY GOGGLES/FACE SHIELD Other Protective Equipment:EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING Work Hygionic Practices:
Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING.
Supplemental Safety and Health VP=4893MM HG(80PSIG).NOTE:EXPSRE TO HIGH VAP.LEVELS MAY CAUSE CARDIAC ARRYTH-VAP.MAY COLLECT IN LOW PLACES-NON-FLAMM,FREON 12-DECOMP.SLOWLY W.WTR-TYPE 12 OF FED SPEC BB-F-1421/MSDS DATED OCT85
========= Physical/Chemical Properties ==========
HCC:G3

Boiling Pt:B.P. Text:-22F,-30C Vapor Pres:4888 @ 25C Vapor D

:WEAR FULL PROTECTIVE CLOTHING AND

ensity:4.26 Spec Gravity:1.315 Solubility in Water:NEGLIGIBLE Appearance and Odor:CLEAR, COLORLESS LIQUEFIED GAS - SLIGHT ETHEREAL ODOR Percent Volatiles by Volume:100
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC. Stability Condition to Avoid:FIRE, TEMPERATURES ABOVE 125F Hazardous Decomposition Products:MAY FORM HYDROGEN FLUORIDE, HYDROGEN CHLO RIDE AND TRACES OF CARBONYL HALIDES.
======= Disposal Considerations ==========

Waste Disposal Methods:FOR DISCHARGE OR DISPOSING OF WASTE MATERIAL, CONSULT LOCAL, STATE AND FEDERAL AUTHORITIES.

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