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DU PONT E I DE NEMOURS AND CO INC -- SUVA HP 81 (R 402 B) -- 6830-01-392-0991

Product ID:SUVA HP 81 (R 402 B)

MSDS Date:12/06/1997

FSC:6830

NIIN:01-392-0991

MSDS Number: CFKVB === Responsible Party ===

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

City:WILMINGTON

State:DE ZIP:19898 Country:US

Info Phone Num:800-441-9442

Emergency Phone Num:800-441-3637 Resp. Party Other MSDS Num.:DU005603 Chemtrec Ind/Phone:(800)424-9300

CAGE:2S827

=== Contractor Identification ===

Company Name: DU PONT FLUOROPRODUCTS

Address:1007 MARKET STREET

Box:City:WILMINGTON

State:DE ZIP:19898 Country:US

Phone:1-800-441-7515

Contract Num:SP0450-99-M-JT25

CAGE:2S827

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

Ingred Name: ETHANE, PENTAFLUORO- (HFC-125)/PENTAFLUOROETHANE

CAS:354-33-6 = Wt:38.

Other REC Limits: NONE RE

COMMENDED

Ingred Name: METHANE, CHLORODIFLUORO- (HCFC-22)/CHLORODIFLUOROMETHANE

(SARA 313) (CERCLA)

CAS:75-45-6

RTECS #:PA6390000

= Wt:60.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9596 Ozone Depleting Chemical:2

Ingred Name:PROPANE

CAS:74-98-6

RTECS #:TX2275000

= Wt:2.

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:ASPHYXIANT; 9596

TWA(HCFC-22)

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:CNS, CVS. ACUTE- HARMFUL IF INHALED. MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE IS FATAL. VAPOR REDUCES OXYGEN & IS HEAVIER THAN AIR. EYE/SKIN CONTACT W ITH LIQUID CAN CAUSE FROSTBITE. VAPORS CAN CAUSE EYE IRRITATION. INGESTION IS UNLIKELY. CHRONIC- UNKNOWN.

Explanation of Car

cinogenicity:NONE OF THE COMPONENTS PRESENT IN THIS
MATERIAL AT CONCENTRATIONS GREATER THAN 0.1% ARE LISTED BY IARC,
NTP, OSHA OR ACGIH AS A CARCINOGEN.

Effects of Overexposure:TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANAESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, IRREGULAR PULSE, PALPITATIONS, INADEQUATE CIRCULATION, FROST BITE, IRRITATION, BLURRED VISION, TEARING.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PR EEXISTING

DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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First Aid:EYE:IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF NEEDED. SKIN: MMEDIATELY FLUSH WITH PLENTY OF LUKEWARM WATER. GET MEDICAL ATTENTION IF FROSTBITE OCCURS. I NHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/ARTIFICIAL

RESPIRATION IF NEEDED. INGESTION: NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE. NOTE TO PHYSICIAN:CATECHOLAMINE DRUGS, SUCH AS ADRENILINE, SHOUL D BE USED WITH SPECIAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE SUPPORT.

 Liro	Liabtica	NACCHIRCO	

Flash Point: WILL NOT BURN

Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA. Fire Fighting Procedures: KEEP CYLINDERS COOL WITH WATER SPRAY OR FOG. SELF-CONTAINED BREATHING APPARA

TUS (SCBA) IS REQUIRED IF CYLINDERS RUPTURE AND CONTENTS ARE RELEASED UNDER FIRE CONDITIONS. WATER RUNOFF SHOULD BE CONTAI NED AND NEUTRALIZED PRIOR TO RELEASE. Unusual Fire/Explosion Hazard:CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. PRODUCT SHOULD NOT BE USED OR ALLOWED TO EXIST WITH HIGH CONCENTRATIONS OF AIR ABOVE ATMOSPHERIC PRESSURE.
======== Accidental Release Measures ==========
Spill Release Procedures: VENTILATE AREA, ESPECIALLY LOW PLACES WHERE
VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS FOR LARGE SPILLS OR RELEASES. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.
=========== Handling and Storage =============
Handling and Storage Precautions:STORE IN A COOL, DRY AREA. DO NOT HEAT
ABOVE 125F (52C). Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT WITH LIQUID. WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW THE RECOMMENDED LIMITS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF A LARGE RELEASE OCCURS.
Ventilation:USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW THE RECOMMENDED LIMITS. LOCAL EXHAUST FOR LARGE RELEASES. MECHANICAL FOR ENCLOSED SPACE
S. Protective Gloves:IMPERVIOUS GLOVES. Eye Protection:CHEMICAL SPLASH GOGGLES. Other Protective Equipment:REFRIGERANT CONCENTRATION MONITORS MAY BE NECESSARY TO DETERMINE VAPOR CONCENTRATIONS IN WORK AREAS PRIOR TO USE OF TORCHES OR OTHER OPEN FLAMES, OR IF EMPLOYEES ARE ENTERING ENCLOSED AREAS.
Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. Supplemental Safety and Health
NONE SPECIFIED BY MANUFACTURER.
======== Physical/Chemical Properties =========

HCC:G3 Boiling Pt:=-47.2C, -53.F Vapor Pres:9257 MM HG @ 77F Vapor Density:>1 Spec Gravity:1.14 @ 77F LIQ. Evaporation Rate & amp; Reference:>1 (CCL4=1) Solubility in Water:NOT DETERMINED 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. Stabilit
y Condition to Avoid:MATERIAL IS STABLE. HOWEVER, AVOID OPEN
FLAMES AND HIGH TEMPERATURES. Hazardous Decomposition Products:DECOMPOSITION PRODUCTS ARE HAZARDOUS. "SUVA" HP 81 CAN BE DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS AND IRRITATING.
Conditions to Avoid Polymerization:WILL NOT OCCUR.
========= Toxicological Information ==========
Toxicological Information:ANIMAL DATA: THE B LEND IS UNTESTED. PENTAFLUOROETHANE: INHALATION 4 HR ALC: >709,000 PPM IN RATS. LOAEL: 100,000 PPM. NOAEL: 50,000 PPM. NO ANMAL DATA AVAILABLE TO DEFINE CARCINOGENIC, DEVELOPMENTAL OR REPRODUCTIVE HAZARDS. CHLORODIFLUOROMETHANE: INHALATION 4 HR LC50: 220,000 PPM IN RATS. COMPOUND IS A SKIN IRRITANT AND SLIGHT EYE IRRITANT. COMPOUNDDID EXHIBIT SOME CHRONIC EFFECTS: SMALL BUT ST ATISICALLY SIGNIFIGANT INCREASE IN LATE-OCCURING TUMORS IN SALIVARY GLANDS OFMALE RATS;
MUTAGENIC TO SOME STRAINS OF BACTERIA BUT NOT TO MAMMALIAN CELL CULTURE. SOME DEVELOPMENTAL TOXICITY AT HIGH CO NCENTRATIONS.
========= Ecological Information ===========
Ecological:AQUATIC TOXICITY: HCFC-22: 48 HR EC50 (DAPHNIA MAGNA): 433 MG/L.
====== Disposal Considerations ==========
Waste Disposal Methods:RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED

Waste Disposal Methods:RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. COMPLY WITH FEDERAL, STATE AND LOCAL REG

ULATIONS.
======== MSDS Transport Information ==========
Transport Information:LIQUIFIED GAS, N.O.S. (CHLORODIFLUOROMETHANE AND PENTAFLUOROETHANE). HAZARD CLASS: 2.2. UN NO: 3163. DOT/IMO LABEL: NONFLAMMABLE GAS. SHIPPING CONTAINERS: TANK CARS, CYLINDERS, TON TANKS.
========= Regulatory Information ===========
SARA Title III Information:SECTIONS 311/312: ACUTE: YES; CHRONIC: NO; FIRE: NO; REACTIVITY: NO; PRESSURE: YES. SARA TOXIC CHEMICAL LIST: NO. SARA EXTREMELY HAZARDOUS SUBSTANCE LIST: NO. Federal Regulatory Information:CERCLA HAZARDOUS SUBSTANCE LIST: NO. TSCA INVENTORY STATUS: REPORTED/INCLUDED.
State Regulatory Information:NONE SPECIFIED BY MANUFACTURER.
=========== Other Information ============
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