

DUPONT E I -- SUVA HP80 (R402A) - NONE
MATERIAL SAFETY DATA SHEET
NSN: 683000D007270
Manufacturer's CAGE: 18873
Part No. Indicator: A
Part Number/Trade Name: SUVA HP80 (R402A)

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General Information
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Item Name: NONE
Company's Name: DU PONT E I DE NEMOURS & CO INC
Company's Street: 1007 MARKET STREET
Company's P. O. Box: 1635
Company's City: WILMINGTON
Company's State: DE
Company's Country: US
Company's Zip Code: 19898
Company's Emerg Ph #: 800-441-3637/800-424-9300(CHEMTREC)
Company's Info Ph #: 800-441-7515/MSDS 302-992-3511
Distributor/Vendor # 1: DU PONT E I DE NEMOURS AND CO INC
Distributor/Vendor # 1 Cage: 2S827
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 06DEC97
Safety Data Review Date: 15APR98
MSDS Preparer's Name: DUPONT CHEMICALS
Preparer's Company: ENGINEERING & PRODUCT SAFETY
Preparer's St Or P. O. Box: POB 80709, CHESTNUT RUN
Preparer's City: WILMINGTON
Preparer's State: DE
Preparer's Zip Code: 19880-0709
MSDS Serial Number: CGLND
Specification Number: NONE
Spec Type, Grade, Class: NONE
Hazard Characteristic Code: G3
Unit Of Issue Container Qty: UNKNOWN
Type Of Container: UNKNOWN
Net Unit Weight: UNKNOWN

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: PENTAFLUROETHANE,
Ingredient Sequence Number: 01
Percent: 60
NIOSH (RTECS) Number: 1009928PE
CAS Number: 354-33-6
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: CHLORODIFLUOROMETHANE (SARA 313) (CERCLA)
Ingredient Sequence Number: 02
Percent: 38
NIOSH (RTECS) Number: PA6390000
CAS Number: 75-45-6
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9596

Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: PROPANE
Ingredient Sequence Number: 03
Percent: 2
NIOSH (RTECS) Number: TX2275000
CAS Number: 74-98-6
OSHA PEL: 1000 PPM
ACGIH TLV: ASPHYXIANT; 9596
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR, COLORLESS LIQUIFIED GAS, ETHER (SLIGHT) ODOR.
Boiling Point: 56.0F,13.3C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 193 PSIA
Specific Gravity: 1.152 GM/CC
Evaporation Rate And Ref: >1 (CCL4=1)
Solubility In Water: UNKNOWN
Percent Volatiles By Volume: 100
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data

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Flash Point: WILL NOT BURN
Flash Point Method: TOC
Lower Explosive Limit: NONE
Upper Explosive Limit: NONE
Extinguishing Media: USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL.
Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR. USE WATER TO COOL FIRE EXPOSED CONTAINERS.
Unusual Fire And Expl Hazrds: CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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Reactivity Data

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Stability: YES
Cond To Avoid (Stability): AVOID OPEN FLAMES AND HIGH TEMPERATURES.
Materials To Avoid: INCOMPATIBLE W/ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC.
Hazardous Decomp Products: HYDROCHLORIC & HYDROFLUORIC ACID & POSSIBLE CARBONYL HALIDES.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): POLYMERIZATION WILL NOT OCCUR.

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Health Hazard Data

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LD50-LC50 Mixture: AEL DUPONT: 1000 PPM 8 & 12 HR TWA
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUES OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING AND IS HEAVIER THAN AIR. LIQUID CONTACT CAN CAUSE FROSTBITE.
Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Signs/Symptoms Of Overexp: SKIN CONTACT MAY CAUSE FROSTBITE FROM EXPOSURE TO THE LIQUID. INHALATION MAY INCLUDE NONSPECIFIC DISCOMFORT, SUCH AS NAUSEA, HEADACHE, OR WEAKNESS OR TEMPORARY NERVOUS SYSTEM DEPRESSION WITH ANESTHETIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION AND LOSS OF CONSCIOUSNESS.

Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.

Emergency/First Aid Proc: INHALATION: REMOVE TO FRESH AIR. KEEP PERSON CALM, IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. SKIN: FLUSH W/WATER TREAT FOR FROSTBITE IF NECESSARY BY GENTLY WARMING AFFECTED AREA. EYES: FLUSH W/PLENTY OF WATER FOR 15 MINUTES. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: VENTILATE AREA, ESPECIALLY LOW/ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS IF LARGE SPILL OR LEAK OCCURS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: COMPLY WITH FEDERAL, STATE & LOCAL REGULATIONS FOR REPORTING RELEASES.

Precautions-Handling/Storing: STORE IN A CLEAN, DRY PLACE. DO NOT HEAT ABOVE 52C (126F).

Other Precautions: AVOID BREATHING VAPORS OR MIST. AVOID CONTACT WITH EYES OR SKIN. USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW THE RECOMMENDED LIMIT.

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Control Measures
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Respiratory Protection: UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF LARGE RELEASE OCCURS.

Ventilation: LOCAL EXHAUST IF LARGE AMOUNTS ARE RELEASED. MECHANICAL VENTILATION SHOULD BE USED IN LOW/ENCLOSED PLACES.

Protective Gloves: LINED BUTYL GLOVES.

Eye Protection: CHEMICAL SPLASH GOGGLES.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: WASH CONTAMINATED CLOTHING BEFORE REUSE.

Suppl. Safety & Health Data: NOTE TO PHYSICIAN: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD ONLY BE USED WITH SPECIAL CAUTION.

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Transportation Data
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Trans Data Review Date: 98105

DOT PSN Code: IID

DOT Proper Shipping Name: LIQUEFIED GAS, N.O.S.

DOT Class: 2.2

DOT ID Number: UN3163

DOT Label: NON-FLAMMABLE GAS

IMO PSN Code: IZS

IMO Proper Shipping Name: LIQUEFIED GAS, N.O.S. o

IMO Regulations Page Number: 2155-1

IMO UN Number: 3163

IMO UN Class: 2(2.2)

IMO Subsidiary Risk Label: -

IATA PSN Code: PDH

IATA UN ID Number: 3163
IATA Proper Shipping Name: LIQUEFIED GAS, N.O.S. *
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
AFI PSN Code: XXX
AFI Prop. Shipping Name: SEE ADDITIONAL DATA FIELD IN HMIS FOR FURTHER INFORMATION
N.O.S. Shipping Name: PENTAFLUOROETHANE, CHLORODIFLUOROMETHANE, PROPANE
Additional Trans Data: PSN (DOT/IMO/IATA) IS PER MFR MSDS. RECOMMENDED AFI PSN: GAS, REFRIGERATED LIQUID, NOS (PENTAFLUOROETHANE, CHLORODIFLUOROMETHANE, PROPANE), 2.2, UN3158; IS BEST GUESS BY DSCR-VBA STAFF SINCE AFI DOES NOT HAVE EXACTLY SAME PSN IN TABLES AS OTHER MODES.

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Disposal Data

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Label Data

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Label Required: YES
Technical Review Date: 15APR98
Label Status: F
Common Name: SUVA HP80 (R402A)
Chronic Hazard: NO
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS, OR DEATH. INTENTIONAL MISUSES OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING AND IS HEAVIER THAN AIR. LIQUID CONTACT CAN CAUSE FROSTBITE. TARGET ORGANS: CVS, LUNGS. FIRST AID: INHALATION: REMOVE TO FRESH AIR. KEEP PERSON CALM, IF NOT BREATHING, FLUSH W/WATER TREAT FOR FROSTBITE IF NECESSARY BY GENTLY WARMING AFFECTED AREA. EYES: FLUSH W/PLENTY OF WATER FOR 15 MINUTES. OBTAIN MEDICAL ATTENTION IN ALL CASES.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: DU PONT E I DE NEMOURS AND CO INC
Label Street: DU PONT CHEMICALS FLUORCHEMICALS
Label City: WILMINGTON
Label State: DE
Label Zip Code: 19898
Label Country: US
Label Emergency Number: 800-441-3637/800-424-9300 (CHEMTREC)