

DU PONT E I DE NEMOURS & CO INC -- SUVA HP81 -- 6830-01-391-3103

===== Product Identification =====

Product ID:SUVA HP81

MSDS Date:10/21/1996

FSC:6830

NIIN:01-391-3103

MSDS Number: CHZCK

=== Responsible Party ===

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

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-7515/MSDS 302-992-3511

Emergency Pho

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

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:PENTAFLUOROETHANE,

CAS:354-33-6

Fraction by Wt: 38%

Other REC Limits:NONE RECOMMENDED

Ingred Name:CHLORODIFLUOROMETHANE (SARA 313) (CERCLA)

CAS:75-45-6

RTECS #:PA63900

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Fraction by 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

Fraction by Wt: 2%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:ASPHYXIAN; 9596

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL (RAT): >230 PPM

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health

h Hazards Acute and Chronic:GROSS OVEREXPOSURE MAY CAUSE: CENTRAL NERVOUS SYSTEM DEPRESSION, UNCONSCIOUSNESS, OR DEATH. SUFFOCATION IF AIR IS DISPLACED BY VAPOR.

Explanation of Carcinogenicity:NOT CARCINOGENIC.

Effects of Overexposure:SKIN CONTACT MAY CAUSE FROSTBITE FROM EXPOSURE TO THE LIQUID. INHALATION MAY INCLUDE DIZZINESS, CONFUSION, INCOORDINATION, DROWSINESS, IRREGULAR HEART BEAT WITH A STRANGE SENSATION IN THE CHEST, HEART THUMPING, APPREHENSION, LIGHTHEADEDNESS

, FEELING OF FAINTING, DIZZINESS, WEAKNESS.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

===== First Aid Measures =====

First Aid: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. CALL A PHYSICIAN. IN

GESTION: NOT CONSIDERED A POTENTIAL  
ROUTE OF EXPOSURE.

===== Fire Fighting Measures =====

Flash Point Method:TOC

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING MATERIAL.

Fire Fighting Procedures:COOL TANKS/CONTAINERS WITH WATER SPRAY. SCBA  
APPARATUS MAY BE REQUIRED IF CYLINDERS RUPTURE OR RELEASED UNDER  
FIRE CONDITIONS.

Unusual Fire/Explosion Hazard:CYLINDERS MAY REPTURE UNDER FIRE  
CONDITIONS. DECOMPOSITION MAY OCCUR.

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==== Accidental Release Measures =====

Spill Release Procedures: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.

===== Handling and Storage =====

Handling and Storage Precautions: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.

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

Respiratory Protection:UNDER NORMAL MANUFACTURUNG 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 USEDD 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.

Supplemental Safety and Health

NOTE TO PHYSICIAN: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM,  
CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD ONLY BE USED  
W/SPECIAL CAUTION.

===== Physical/Chemical Properties

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HCC:G3

Boiling Pt:B.P. Text:-53F,-47C

Vapor Pres:179 PSIA

Vapor Density:1.14

Appearance and Odor:COLORLESS LIQUIDIFIED GAS W/SLIGHT ETNEREAL ODOR

Percent Volatiles by Volume:100/WT

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS-POWDERED ALUMINUM, ZINC, BERYLLIUM.

Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Hazardous Decomposition Products:HYDROFLUORIC AC

IDS & POSSIBLE CARBONYL

HALIDES.

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Disposal Considerations =====

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

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