

DU PONT E I DE NEMOURS & CO INC -- "SUVA" HP80 (R402A) -- 6830-01-391-3105

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

Product ID:"SUVA" HP80 (R402A)

MSDS Date:06/21/1995

FSC:6830

NIIN:01-391-3105

MSDS Number: BXSFY

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

CAGE:18873

=== 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

CAGE:2S827

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:PENT

AFLUROETHANE,
CAS:354-33-6
Fraction by Wt: 60%
Other REC Limits:NONE RECOMMENDED

Ingred Name:CHLOROACETALDEHYDE (CERCLA)
CAS:107-20-0
RTECS #:AB2450000
Fraction by Wt: 38%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1 PPM
ACGIH TLV:C 1 PPM; 9495

Ingred Name:POTASSIUM CHROMATE (SARA 313) (CERCLA)
CAS:7789-00-6
RTECS #:GB2940000
Fraction by Wt: 2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 0.1 MG(CRO3)/M3
ACGIH TLV:0.5 MG(CR)/M3,A4; 95
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

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==== Hazards Identification =====

LD50 LC50 Mixture:THE BLEND IS UNTESTED.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards 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 RE DUCES OXYGEN AVAILABLE FOR
BREATHING AND IS HEA
VIER THAN AIR. LIQUID CONTACT CAN CAUSE
FROSTBITE.
Explanation of Carcinogenicity:NOT CARCINOGENIC.
Effects of Overexposure: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 ANESTHETI C EFFECTS SUCH AS DIZZINESS, HEADACHE,
CONFUSION, INCOORDINATION AND LOSS OF CONSCIOUSNESS.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTU

RER.

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===== 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. OBTAIN MEDICAL ATTENTION IN ALL CASES.

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

Flash Point Metho

d:TOC

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

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.

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

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

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

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===== 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 USED IN LOW/ENCLOSED PLACES.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipm

ent:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING. 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 =====

HCC:G3

Boiling Pt:B.P. Text:-56F,-49C

Vapor Pres:193.6 PSIA

Vapor Density:1.152

Evaporation Rate &

; Reference:(CARBONTETRACHLORIDE=1)>1

Solubility in Water:0.1 WT%

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

Percent Volatiles by Volume:100/WT

===== 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:HYDROCHLORIC AND HYDROFLUORIC ACIDS &

POSSIBLE CARBONYL HALIDES.

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

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

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