

"SUVA" HP81 (R402B)

MSDS Number

CGXGS

National Stock Number

6830-01-392-0993

Product Name

"SUVA" HP81 (R402B)

Manufacturer

DU PONT E I DE NEMOURS AND CO INC

Product Identification

Product ID:"SUVA" HP81 (R402B)

MSDS Date:04/09/1998

FSC:6830

NIIN:01-392-0993

MSDS Number: CGXGS

Responsible Party

DU PONT E I DE NEMOURS AND CO INC

DU PONT CHEMICALS FLUORCHEMICALS

WILMINGTON , DE 19898

US

Emergency Phone: 800-441-3637/800-424-9300 (CHEMTREC

Info Phone: 800-441-7515/ 302-774-6822

Cage: 2S827

Contractor

DU PONT FLUOROPRODUCTS

WILMINGTON, DE 19898

US

1-800-441-7515

Cage: 2S827

Ingredients

PENTAFLUOROETHANE,

CAS: 354-33-6

Fraction By Weight: 60%

CHLOROACETALDEHYDE (CERCLA)

CAS: 107-20-0

RTECS: AB2450000

Fraction By Weight: 38%

OSHA PELC 1 PPM

ACGIH TLV: C 1 PPM; 9495

POTASSIUM CHROMATE (SARA 313) (CERCLA)

CAS: 7789-00-6

RTECS: GB2940000

Fraction By Weight: 2%

OSHA PELC 0.1 MG(CRO3)/M3

ACGIH TLV: 0.5 MG(CR)/M3,A4; 95

EPA Report Quantity: 10 LBS

DOT Report Quantity: 10 LBS

Hazards

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 HEAVIER 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 MANUFACTURER.

First Aid

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.

Fire Fighting

Flash Point Method:TOC

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures:KEEP CYLINDERS COLL WITH WATER SPRAY OR FOG. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE & CONTENTS ARE RELEASED UNDER FIRE CONDITIONS.

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

Accidental Release

Spill Release Procedures:VENTILATE AREA, ESPECIALLY LOW OR 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

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.

Exposure Controls

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 Equipment: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.

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 ETHEREAL ODOR

Percent Volatiles by Volume: 100/WT

Stability

Stability Indicator/Materials to Avoid: YES

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

Stability Condition to Avoid: MATERIAL IS STABLE, HOWEVER, AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Hazardous Decomposition Products: HYDROCHLORIC AND HYDROFLUORIC ACIDS & POSSIBLE CARBONYL HALIDES.

Disposal

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

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