

DU PONT E I DE NEMOURS AND CO INC, CHEM. FLUOROCH. -- SUVA MP 66 (R 401 B),8968 --  
6830-01-394-5461

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

Product ID:SUVA MP 66 (R 401 B),8968

MSDS Date:10/05/1996

FSC:6830

NIIN:01-394-5461

MSDS Number: CHKZQ

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS AND CO INC, CHEM. FLUOROCH.

Address:1007 NARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:U

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Info Phone Num:800-441-9442

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

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

CAGE:2S827

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

Ingred Name:CHLORODIFLUOROMETHANE (SARA 313) (CERCLA)

CAS:75-45-6

RTECS #:PA6390000

Fraction by Wt: 61%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 P

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

Ingred Name:ETHANE, 1,1-DIFLUORO  
CAS:75-37-6  
RTECS #:KI1410000  
Fraction by Wt: 11%  
Other REC Limits:TWA 1000 PPM 8HR,MFR

Ingred Name:2-CHLORO-1,1,1,2-TETRAFLUOROETHANE (SARA 313)  
CAS:2837-89-0  
Fraction by Wt: 28%  
Other REC Limits:TWA 1000 PPM 8HR,MFR

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

LD50 LC50 Mixture:TLV 1,000 PPM/3540 MG/M3,8H 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, EYE, SKIN, LUNG.

ACUTE- HARMFUL IF INHALED. MAY CAUSE HEART IRREGULARITIES,  
UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE IS FATAL. VAPOR  
REDUCES OXYGEN & IS HEAVIER THAN AIR. EYE/SK IN CONTACT WITH LIQUID  
CAN CAUSE FROSTBITE. VAPORS CAN CAUSE EYE IRRITATION. INGESTION IS  
UNLIKELY. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:TEMPORARY NERVOUS SYST  
EM 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 PREEXISTING  
DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE  
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

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First Aid:GET MEDICAL ATTENTION IF NEEDED. EYE/SKIN:IMMEDIATELY FLUSH  
WITH PLENTY OF WATER. INHALED:REMOVE TO FRESH AIR & PROVIDE  
OXYGEN/CPR IF NEEDED. ORAL:INGESTION IS NOT CONSIDERED A POTENTIAL  
ROUTE OF EXPO SURE. NOTE TO PHYSICIAN:CATECHOLAMINE DRUGS SHOULD BE  
USED WITH SPECIAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE  
SUPPORT.

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

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:126

5F

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CYLINDERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. MOVE CYLINDERS FROM FIRE AREA IF POSSIBLE WITHOUT INCREASED PERSONAL RISK.

Unusual Fire/Explosion Hazard:THIS PRODUCT MAY IGNITE WHEN MIXED WITH AIR ABOVE (60 PSIG) OR AT ATMOSPHER

IC PRESSURE. CYLINDERS MAY

RUPTURE. DECOMPOSITION PRODUCTS ARE TOXIC AND CORROSIVE.

===== 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:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED

AREA, AWAY FROM FLAMES & INCOMPATIBLE MATERIALS. DO NOT HEAT ABOVE 52C/126F.

Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION. NEVER USE IN CONFINED OR CLOSED SPACES WITHOUT PROPER PROTECTIVE EQUIPMENTS.

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

Respiratory Protection:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING

APPARATUS OPERATED IN POSITIVE PRESSURE MODE OR SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE IF A LARGE RELEASE OCCURS.

Ventilation:NORMAL VENTILATION IS SUFFICIENT. LOCAL EXHAUST WHEN LARGE AMOUNTS ARE RELEASED, MECHANICAL VENTILATION IN LOW PLACES

Protective Gloves:LINED BUTYL GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES/FACE SHIELD

Other Protective Equipment:EYEBATH, WASHING FACILITY, SAFETY SHOWER, UNIFORM

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Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:-30F,-35C

Vapor Pres:6142 @ 77F

Vapor Density:3.2

Spec Gravity:1.193 @ 77F LIQ

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:>1 (CCL4=1)

Solubility in Water:0.1% @ 25C/77F

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.

Stability Condition to Avoid:OPEN FLAME, GLOWING METAL SURFACES, HIGH TEMPERATURES (52C/126F)

Hazardous Decomposition Products:MAY FORM HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND TRACES OF CARBONYL HALIDES.

===== Disposal Consideration

s =====

Waste Disposal Methods:TREATMENT, STORAGE, TRANSPORTATION AND DISPOSAL MUST BE IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS. RECOVER BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY.

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