

DU PONT E I DE NEMOURS & CO INC -- CHLORODIFLUOROMETHANE,FREON/HCFC-22,CC 0335 --  
6830-00-060-9972

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

Product ID:CHLORODIFLUOROMETHANE,FREON/HCFC-22,CC 0335

MSDS Date:10/05/1996

FSC:6830

NIIN:00-060-9972

MSDS Number: BPNTV

=== Responsible Party ===

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

Address:1007 MARKET STREET

Box:1635

City:WILMINGTON

State:DE

ZIP:19898

Co

Country:US

Info Phone Num:800-441-9442/MSDS 302-992-3511

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

CAGE:18873

=== Contractor Identification ===

Company Name:DU PONT E I DE NEMOURS AND CO INC PETROCHEMICALS DEPT

Address:1251 BRANDYWINE BLDG

Box:City:WILMINGTON

State:DE

ZIP:19898

Phone:302-773-5676

CAGE:73925

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:CHLORODIFLUOROMETHANE (SARA 313)  
(CERCLA)/METHANE,CHLORODIFLUORO- (HCFC 22)  
CAS:75-45-6  
RTECS #:PA6390000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9596  
Ozone Depleting Chemical:2

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

LD50 LC50 Mixture:TLV 1,000 PPM.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO I  
ARC: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 SYSTEM DEPRESSION WITH  
ANAESTHE  
TIC EFFECTS SUCH AS DIZZINESS, HEADACHE, CONFUSION,  
INCOORDINATION, LOSS OF CONSCIOUSNESS, IRREGULAR PULSE,  
PALPITATIONS, INADEQUATE CIRCULATION, FROST BILTE, IRRITATION,  
BLURRED VISION, TEARING  
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEEXISTING  
DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE  
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

First Aid:GET MEDIC  
AL 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:1170F  
Lower Limits:NOT RELEVANT  
U

ppper 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 AT CONCENTRATIONS OF 65 VOLUME % AIR. 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 125F.

Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER 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, SAFETY SHOWER, PROTECTIVE CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND

RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.  
Supplemental Safety and Health

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:-41F,-41C

Vapor Pres:8567 @ 77F

Vapor Density:3.03 @ 77F

Spec Gravity:1.194 (LIQUID)

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

Solubility in Water:0.30 BY WT @ 25C/77F

Appearance and Odor:CLEAR, COLORLESS LIQUEFIED GAS - SLIGHT ETHEREAL  
ODOR

Percent Volatiles by Vo

lume: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:FLAME, GLOWING METAL SURFACES, HIGH  
TEMPERATURES

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

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

Waste Disposal Methods:RECLAIM BY  
DISTILLATION. CONSULT LOCAL, STATE  
AND FEDERAL AUTHORITIES.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility fo

r the suitability of this information to their particular situation.