

E.I.DU PONT DE NEMOURS & CO.,INC. -- FREON 114 FLUOROCARBONS -- 6685-01-173-9775  
===== Product Identification =====

Product ID:FREON 114 FLUOROCARBONS

MSDS Date:10/07/1991

FSC:6685

NIIN:01-173-9775

MSDS Number: BSFKV

=== Responsible Party ===

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

Address:1007 MARKET STREET

City:WILMINGTON

State:DE

ZIP:19898

Country:US

Info Phone Num:800-441-9450

Emergency

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

Preparer's Name:W. J. BROCK

CAGE:DO962

=== 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

Company Name:E.I.DU PONT DE NEMOURS,INC.

CAGE:DO962

Company Name:WEKSLERIGLASS THERMOMETER CORP

Address:80 MILL ROAD

Box:City:FREEPORT

State:NY

ZIP:11520

Country:US

Phone:516-623-0100

CAGE:64467

===== Composit

ion/Information on Ingredients =====

Ingred Name:DICHLOROTETRAFLUOROETHANE (SARA III)  
CAS:76-14-2  
RTECS #:KI1101000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9293  
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:TLV: 1,000 PPM, 6,990 MG/M3-8 HR TWA

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

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

Health Hazard

s Acute and Chronic:INHALATION OF HIGH CONCENTRATIONS OF VAPOR IS HARMFUL & MAY CAUSE HEART IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE OR DELIBERATE INHALATION MAY CAUSE DEATH WITHOUT WARNING. VAPOR REDUCES OXYGEN AVAILABLE FOR BREATHING & IS HEAVIER THAN AIR. LIQUID CONTACT MAY CAUSE FROSTBITE.

Explanation of Carcinogenicity:NONE OF THE COMPONENTS IN THIS MATERIAL IS LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.

Effects of Overexposure:OVEREXPOSURE

BY SKIN OR EYE CONTACT MAY INCLUDE

SKIN IRRITATION WITH DISCOMFORT OR RASH; OR EYE IRRITATION WITH DISCOMFORT, TEARING, OR BLURRING OF VISION. CONTACT WITH LIQUID MAY CAUSE FROSTBITE. OVEREXPOSURE BY INHALATION OF VAPORS MAY CAUSE NAUSEA, HEADACHE, OR WEAKNESS.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING

DISEASE OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

First Aid:INHALE:REMOVE TO FRESH AIR. KEEP PERSON CALM. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN. SKIN:FLUSH WITH WATER. TREAT FOR FROSTBITE IF NEEDED. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. EYE-FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MIN. CALL A PHYSICIAN. INGESTION-INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

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

Flash Point Method:TOC

Flash Point:WILL NOT BURN

Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.

Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE CONTENTS UNDER FIRE CONDITIONS. USE WATER SPRAY OR FOG TO COOL CONTAINERS.

Unusual Fire/Explosion Hazard:CYLINDERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES BUT STILL MAY RUPTURE UNDER FIRE CONDITION

S. DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:VENTILATE AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS IN CASE OF LARGE SPILLS. COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS ON REPORTING RELEASES.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:CLEAN, DRY AREA. DO NOT HEAT ABOVE 125F.

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

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

Respiratory Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. USE A SELF CONTAINED BREATHING APPARATUS IF A LARGE RELEASE OCCURS.

Ventilation:LOCAL

EXHAUST-FOR LARGE AMOUNTS RELEASED.GENERAL MECHANICAL- FOR LOW OR ENCLOSED PLACES.

Protective Gloves:IMPERVIOUS GLOVES FOR LIQUID CONTACT.

Eye Protection:CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NOTES TO PHYSICIAN: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM, CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE USED WITH SPECIAL CAUTION IN SITUATIONS

OF EMERGENCY LIFE SUPPORT.

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

HCC:G3

Boiling Pt:B.P. Text:39.2F,4.0C

Decomp Temp:Decomp Text:1099F,593C

Vapor Pres:31 PSIA

Vapor Density:6.2

Spec Gravity:1.46

Evaporation Rate & Reference:GREATER THAN 1

Solubility in Water:0.013 WT% AT 25C

Appearance and Odor:LIQUIFIED GAS, CLEAR, COLORLESS, SLIGHT ETHEREAL  
ODOR.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stabili

ty Indicator/Materials to Avoid:YES

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

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

Hazardous Decomposition Products:DECOMPOSITION PRODUCTS ARE HAZARDOUS.  
FORMING HYDROCHLORIC & HYDROFLUORIC ACID, & POSSIBLY CARBONYL  
HALIDES.

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

Waste Disposal Methods:COMPLY WITH FEDERAL, ST  
ATE AND LOCAL

REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A LICENSED WASTE  
DISPOSAL FACILITY.

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