

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 RED UCES 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:OVEREXPOSU
RE 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. OVE REXPOSURE BY INHALATION OF VAPORS MAY CAUSE
NAUSEA, HEADACHE, OR WEAKNESS.
Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEXISTING
DISEASE OF THE CENTRAL NERVOUS OR CARDIOVASULAR SYSTEM MAY HAVE
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

=====

===== 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 NEE DED. 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.

=====

===== 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 =====

Stability 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, STATE AND LOCAL
REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A LICENSED WASTE
DISPOSAL FACILITY.

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.

ice to verify and
assume responsibility for the suitability of this information to their
particular situation.