

DU PONT E I DE NEMOURS & CO -- DU000026 F-11 OR CC0119 -- 4940-00-825-0198

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

Product ID:DU000026 F-11 OR CC0119

MSDS Date:07/31/1995

FSC:4940

NIIN:00-825-0198

MSDS Number: CCCCC

=== Responsible Party ===

Company Name:DU PONT E I DE NEMOURS & CO

Address:1007 MARKET ST

City:WILMINGTON

State:DE

ZIP:19899

Country:US

Info Phone Num:800-441-9442

Emergency Phone Num:800-4

24-9300 CHEMTREC

CAGE:89154

=== Contractor Identification ===

Company Name:DU PONT E I DE NEMOURS & CO

Address:1007 MARKET ST

Box:City:WILMINGTON

State:DE

ZIP:19899

Country:US

Phone:800-441-7515

CAGE:89154

Company Name:YOKOGAWA ELECTROFACT BV

Address:3800 AD, RADIUMWEG 30

Box:City:AMERSFOORT THE NETHERLANDS

Phone:404-253-7000

CAGE:60336

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

Ingred Name:TRICHLOROFLUOROMETHANE (CFC-11) (SARA 313) (CERCLA)

CAS:75-69-4

RTECS #:PB612

5000
Fraction by Wt: 100%
Other REC Limits:NONE ESTABLISHED
OSHA PEL:1000 PPM
ACGIH TLV:C 1000 PPM; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 3725
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:CONTACT WITH SKIN & EYE IRRITATION.
INHALATION MAY CAUSE TEMPORARY C
NS DEPRESSION, TEMPORARY ALTERING
OF HEART'S ELECTRICAL ACTIVITY. INGESTION MAY CAUSE NON-SPECIFIC
DISCOMFORT.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:EYES-DISCOMFORT, TEARING, BLURRING OF VISION.
SKIN-IRRITATION, DISCOMFORT, RASH. INHALED-DIZZINESS, HEADACHE,
CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, IRREGULAR PULSE,
PALPITATIONS, INADEQUATE CIRC
ULATION. INGESTION-NAUSEA, HEADACHE,
WEAKNESS.
Medical Cond Aggravated by Exposure:PERSONS WITH DISEASE OF THE CENTRAL
NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED
SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR
15 MINUTES. SKIN-FLUSH WITH WATER FOR 15 MINUTES. INHALED-REMOVE TO
FRESH AIR. ADMINISTER OXYGEN OR ARTI
FICIAL RESPIRATION AS NEEDED.
INGESTED-CONSULT A PHYSICIAN IF NECESSARY.

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

Flash Point Method:TOC
Flash Point:NONFLAMMABLE
Autoignition Temp:Autoignition Temp Text:UNKNON
Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA.
Fire Fighting Procedures:SELF-CONTAINED BREATHING APPARATUS IS REQUIRED
IF CONTAINERS RUPTURE AND CONTENTS ARE SPILLED UNDER FIRE
CONDITIONS.
Unusual Fire/Explosion Hazard:DRUMS MAY RUPT

URE UNDER FIRE CONDITIONS.
DECOMPOSITION MAY OCCUR.

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

Spill Release Procedures:VENTILATE AREA. DO NOT FLUSH TO SEWER. DIKE
SPILL. COLLECT ON ABSORBENT MATERIAL & TRANSFER TO STEEL DRUMS FOR
RECOVERY OR DISPOSAL. USE SELF-CONTAINED BREATHING APPARATUS FOR
LARGE SPILLS. COMPLY WITH ALL REGULATORY REPORTING REQUIREMENTS.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN CLEAN, DRY, WELL VENTED AREA.
KEEP CONTAINERS CLOSED. PROTECT FROM PHYSICAL DAMAGE. DO NOT STORE
ABOVE 125F.
Other Precautions:"FREON" 11 CONTAINS VERY LOW LEVELS OF CARBON
TETRACHLORIDE AND CHLOROFORM, CHEMICALS KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE CANCER.

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

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE
OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED
RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.
Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO
MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves:IMPERVIOUS-RUBBER.
Eye Protection:CHEMICAL SPLASH GOGGLES.
Other Protective Equipment:NONE SPECIFIED BY MANUFACTURER.NONE
SPECIFIED BY MANUFACTURER.
Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING,
DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health
PRODUCT IS FOUND IN GLASS VIAL CONTAINED IN AN INSTRUMENT; P/N H10 OR
H10G OR H10G01. NOTE TO PHYSICIANS: 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:N1
Boiling Pt:B.P. Text:75.0F,23.9C
Vapor Pres:760.284
Vapor Density:4.

9

Spec Gravity:1.48

pH:7

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

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS LIQUID-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, ETC.

Stability Condition to Avoid:OPEN FLAMES AND HIGH TEMPERATURES

Hazardous Decomposition Products:HYDROCHLORIC AND HYDROFLUORIC
ACIDS,P

POSSIBLY CARBONYL HALIDES.

Conditions to Avoid Polymerization:POLYMERIZATION WILL NOT OCCUR.

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

Waste Disposal Methods:RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED
WASTE DISPOSAL FACILITY. COMPLY WITH FEDERAL, STATE AND LOCAL
REGULATIONS.

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 for the suitability of this information to their

particular situation.