

DUPONT E I -- FREON 502 REFRIGERANT - MONOCHLORODIFLUOROMETHANE, MONOCHLOROPENTAFLUOR
MATERIAL SAFETY DATA SHEET
NSN: 6830001449952
Manufacturer's CAGE: 18873
Part No. Indicator: A
Part Number/Trade Name: FREON 502 REFRIGERANT

=====
General Information
=====

Item Name: MONOCHLORODIFLUOROMETHANE, MONOCHLOROPENTAFLUOROETHANE, MIXTUR
Company's Name: DU PONT E I DE NEMOURS & CO INC
Company's Street: 1007 MARKET ST
Company's P. O. Box: 1635
Company's City: WILMINGTON
Company's State: DE
Company's Country: US
Company's Zip Code: 19898
Company's Emerg Ph #: 800-441-3637, 800-424-9300 (CHEMTREC)
Company's Info Ph #: 800-441-9450
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 007
Status: SE
Date MSDS Prepared: 26SEP91
Safety Data Review Date: 26NOV93
Supply Item Manager: 75
MSDS Serial Number: BDCBJ
Specification Number: BB-F-1421
Spec Type, Grade, Class: 502 TYPE
Hazard Characteristic Code: G3
Unit Of Issue: LB
Unit Of Issue Container Qty: 30 LB/CY
Type Of Container: DISPOSABLE CY
Net Unit Weight: 30 LBS

=====
Ingredients/Identity Information
=====

=====
Physical/Chemical Characteristics
=====

Appearance And Odor: CLEAR, COLORLESS LIQUID
Boiling Point: -50F, -45C
Melting Point: UNKNOWN
Vapor Pressure (MM Hg/70 F): 169 PSIA
Vapor Density (Air=1): 3.92 AIR=1
Specific Gravity: 1.22
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: >1 CCL4=1
Solubility In Water: 0.15%
Percent Volatiles By Volume: 100
Corrosion Rate (IPY): UNKNOWN
Autoignition Temperature: ????

=====
Fire and Explosion Hazard Data
=====

Flash Point: NON-FLAMMABLE
Extinguishing Media: PRODUCT IS NON-FLAMMABLE. USE MEDIA APPROPRIATE FOR
SURROUNDING MATERIALS.
Special Fire Fighting Proc: IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE
CONDITIONS, WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA).
Unusual Fire And Expl Hazrds: CYLINDERS ARE EQUIPPED WITH TEMPERATURE AND
PRESSURE RELIEF DEVICES BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS.
DECOMPOSITION MAY OCCUR.

=====
Reactivity Data
=====

Stability: YES

Cond To Avoid (Stability): AVOID OPEN FLAMES AND HIGH TEMPERATURES.

Materials To Avoid: ALKALI OR ALKALINE EARTH METALS - POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC.

Hazardous Decomp Products: DECOMPOSITION PRODUCTS ARE HAZARDOUS.

DECOMPOSITION PRODUCTS ARE HYDROCHLORIC ACID, HYDROFLUORIC ACIDS, CARBONYL HALIDES.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): NONE. WILL NOT OCCUR.

=====
Health Hazard Data
=====

LD50-LC50 Mixture: LC50 RATS IS ESTIMATED AT 220,000 PPM

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: INHALATION MAY CAUSE CNS DEPRESSION, ANESTHETIC EFFECTS, DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, UNCONSCIOUSNESS, ALTERATION OF HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PALPITATIONS, OR INADEQUATE CIRCULATION. DEATH FROM GROSS OVEREXPOSURE MAY OCCUR. SKIN/EYE CONTACT WITH LIQUID MAY CAUSE FROSTBITE.

Carcinogenicity - NTP: NO

Carcinogenicity - IARC: NO

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: NONE OF THE COMPONENTS OF THIS PRODUCT ARE LISTED AS CARCINOGENS BY NTP, IARC, OSHA.

Signs/Symptoms Of Overexp: INHALATION: CNS DEPRESSION, ANESTHETIC EFFECTS, DIZZINESS, HEADACHE, CONFUSION, INCOORDINATION, UNCONSCIOUSNESS, CARDIAC IRREGULARITIES, DEATH. EYES/SKIN: FROSTBITE.

Med Cond Aggravated By Exp: PERSON WITH PRE-EXISTING DISEASE INVOLVING THE CENTRAL NERVOUS SYSEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

Emergency/First Aid Proc: EYES: FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: FLUSH WITH LARGE AMOUNTS OF WATER. TREAT FOR FROSTBITE BY GENTLY WARMING AFFECTED AREA. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION: INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPOSURE.

=====
Precautions for Safe Handling and Use
=====

Steps If Matl Released/Spill: VENTILATE AREA, ESPECIALLY LOW PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS (SCBA) FOR LARGE SPILLS.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF WASTE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RECLAIM BY DISTILLATION IF POSSIBLE.

Precautions-Handling/Storing: STORE AWAY FROM OPEN FLAMES, HIGH TEMPERATURES.

Other Precautions: AVOID BREATHING VAPORS AND LIQUID CONTACT WITH SKIN. USE IN WELL VENTILATED AREA.

=====
Control Measures
=====

Respiratory Protection: NOT NORMALLY REQUIRED. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A SPILL OR RELEASE OCCURS.

Ventilation: NORMAL VENTILATION FOR STANDARD MANUFACTURING PROCEDURES IS GENERALLY ADEQUATE. LOCAL EXHAUST FOR LARGE RELEASES.

Protective Gloves: IMPERVIOUS GLOVES IF CONTACT POSSIBLE.

Eye Protection: SPLASH GOGGLES IF CONTACT POSSIBLE.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: AVOID BREATHING VAPORS AND LIQUID CONTACT WITH SKIN.

=====
Transportation Data
=====

=====
Trans Data Review Date: 93330
DOT PSN Code: DHB
DOT Proper Shipping Name: CHLORODIFLUOROMETHANE AND
CHLOROPENTAFLUOROETHANE MIXTURE OR REFRIGERANT GAS R 502.
DOT Class: 2.2
DOT ID Number: UN1973
DOT Label: NONFLAMMABLE GAS
IMO PSN Code: EDF
IMO Proper Shipping Name: CHLORODIFLUOROMETHANE AND
CHLOROPENTAFLUOROETHANE, MIXTURE
IMO Regulations Page Number: 2119
IMO UN Number: 1973
IMO UN Class: 2(2.2)
IMO Subsidiary Risk Label: -
IATA PSN Code: GHV
IATA UN ID Number: 1973
IATA Proper Shipping Name: CHLORODIFLUOROMETHANE AND
CHLOROPENTAFLUOROETHANE MIXTURE
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
AFI PSN Code: GHV
AFI Prop. Shipping Name: CHLORODIFLUOROMETHANE AND CHLOROPENTAFLUOROETHANE
MIXTURE
AFI Class: 2.2
AFI ID Number: UN1973
AFI Basic Pac Ref: 6-6, 6-8
=====

=====
Disposal Data
=====

Disposal Data Review Date: 89144
Rec # For This Disp Entry: 01
Tot Disp Entries Per NSN: 003
Landfill Ban Item: YES
MONOCHLORODIFLUOROMETHANE & MONOCHLOROPENTAFLUOROETHANE, AZEOTROPIC MIXTURE.
NSN 6830-00-1449952 HAS REPLACED 1830-01-1464478. IN CASE OF ACCIDENTAL
EXPOSURE OR DISCHARGE, CONSULT HEALTH AND SAFETY FILE FOR PRECAUTIONS.
1st EPA Haz Wst Name New: NOT REGULATED
1st EPA Haz Wst Char New: NOT REGULATED BY RCRA
1st EPA Acute Hazard New: NO
=====

=====
Label Data
=====

Label Required: YES
Technical Review Date: 26NOV93
Label Status: F
Common Name: FREON 502 REFRIGERANT
Chronic Hazard: NO
Signal Word: DANGER!
Acute Health Hazard-Severe: X
Contact Hazard-Severe: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: INHALATION: CNS DEPRESSION, ANESTHETIC
EFFECTS, DIZZINESS, HEADACHE, CONFUSION, UNCONSCIOUSNESS, ALTERATION OF
HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PALPITATIONS, OR
INADEQUATE CIRCULATION. DEATH FROM GROSS OVEREXPOSURE MAY OCCUR. SKIN/EYE
CONTACT WITH LIQUID MAY CAUSE FROSTBITE. FIRST AID: EYES: FLUSH WITH LARGE
AMOUNTS OF WATER. GET MEDICAL ATTENTION. SKIN: FLUSH WITH LARGE AMOUNTS OF
MOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING DIFFICULT, GIVE
OXYGEN. GET MEDICAL ATTENTION. INGESTION: INGESTION IS NOT CONSIDERED A
POTENTIAL ROUTE OF EXPOSURE.
Protect Eye: Y
Protect Skin: Y
Label Name: DU PONT E I DE NEMOURS & CO INC

Label Street: 1007 MARKET STREET
Label P.O. Box: 1635
Label City: WILMINGTON
Label State: DE
Label Zip Code: 198989
Label Country: US
Label Emergency Number: 800-441-3637, 800-424-9300 (CHEMTREC)