

E I DUPONT & -- FREON 502
MATERIAL SAFETY DATA SHEET
E I DUPONT &NSN: 6830001377970
Manufacturer's CAGE: 73925
Part No. Indicator: A
Part Number/Trade Name: FREON 502

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General Information
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Company's Name: E.I. DUPONT DE NEMOURS & COMPANY
Company's Street: C&P DEPT., CHESTNUT RUN-709
Company's City: WILMINGTON
Company's State: DE
Company's Zip Code: 19898
Company's Emerg Ph #: (800) 441-3637
Company's Info Ph #: (800) 441-9450
Record No. For Safety Entry: 004
Tot Safety Entries This Stk#: 005
Date MSDS Prepared: 01JUN88
Safety Data Review Date: 15MAY91
MSDS Preparer's Name: K.P. BROWN
Preparer's Company: E.I. DUPONT DE NEMOURS & COMPANY
Preparer's City: WILMINGTON
Preparer's State: DE
Preparer's Zip Code: 19898
MSDS Serial Number: BKYVT

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: CHLOROPENTAFLUOROETHANE (SARA III)
Ingredient Sequence Number: 01
Percent: 51.2%
NIOSH (RTECS) Number: KH7877500
CAS Number: 76-15-3
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9192
Other Recommended Limit: 1000 PPM

Proprietary: NO
Ingredient: CHLORODIFLUOROMETHANE
Ingredient Sequence Number: 02
Percent: 48.8
NIOSH (RTECS) Number: PA6390000
CAS Number: 75-45-6
OSHA PEL: 1000 PPM
ACGIH TLV: 1000PPM; 9192
Other Recommended Limit: 1000 PPM

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Physical/Chemical Characteristics
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Appearance And Odor: COLORLESS, CLEAR LIQUEFIED GAS W/SLIGHT ETHEREAL ODOR
Boiling Point: -49.8F
Vapor Pressure (MM Hg/70 F): 169
Vapor Density (Air=1): 3.92
Specific Gravity: 1.22
Evaporation Rate And Ref: (CCL4 = 1): >1

Solubility In Water: 0.15% BY WT.
Percent Volatiles By Volume: 100%
pH: 7

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Fire and Explosion Hazard Data
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Flash Point: NONE
Extinguishing Media: AS APPROPRIATE FOR COMBUSTIBLES IN AREA.
Special Fire Fighting Proc: SELF-CONTAINED BREATHING APPARATUS IS REQUIRED
IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS.
Unusual Fire And Expl Hazrds: CYLINDERS ARE EQUIPPED W/TEMPERATURE &
PRESSURE RELIEF DEVICES BUT STILL MAY RUPTURE UNDER FIRE CONDITIONS.
AUTODECOMPOSITION TEMPERATURE: 1299F.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): OPEN FLAMES, HIGH TEMPERATURES
Materials To Avoid: ALKALI, ALKALINE EARTH METALS, POWDERED ALUMINUM,
ZINC, BERYLLIUM , ETC.
Hazardous Decomp Products: HYDROCHLORIC & HYDROFLUORIC ACIDS, & CARBONYL
HALIDES
Hazardous Poly Occur: NO

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Health Hazard Data
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Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: SKIN: FROSTBITE. INHALATION: HARMFUL, HEART
IRREGULARITIES, UNCONSCIOUSNESS, DEATH, FATAL, NAUSEA, HEADACHE, WEKNESS,
TEMPORARY NERVOUS SYSTEM DEPRESSION, ANAESTHETIC EFFECTS, DIZZINESS/
CONFUSION/INCOORDINATION/LOSS OF CONSCIOUSNESS/ALTERATION OF HEARTS
ELECTRICAL ACTIVITY W/IRREGULAR PULSE & CIRCULATION/PALPITATIONS.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NONE
Signs/Symptoms Of Overexp: SKIN: FROSTBITE. INHALATION: HARMFUL, HEART
IRREGULARITIES, UNCONSCIOUSNESS, DEATH, FATAL, NAUSEA, HEADACHE, WEAKNESS,
TEMPORARY NERVOUS SYSTEM DEPRESSION, ANAESTHETIC EFFECTS, DIZZINESS/
CONFUSION/INCOORDINATION/LOSS OF CONSCIOUSNESS/ALTERNATION OF HEARTS
ELECTRICAL ACTIVITY W/IRREGULAR PULSE/CIRCULATION/PALPITATIONS.
Med Cond Aggravated By Exp: DISEASES OF THE CARDIOVASCULAR SYSTEM
Emergency/First Aid Proc: EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15
MINS. SKIN: CLEANS THOROUGHLY. INHALATION: REMOVE TO FRESH AIR. GIVE CPR OR
OXYGEN IF NEEDED. INGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTE TO
PHYSICIAN: BECAUSE OF POSSIBLE DISTURBANCES OF CARDIAC RHYTHM,
CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE, SHOULD BE USED W/SPEICAL CAUTION
ONLY IN SITUATIONS OF EMERGENCY LIFE SUPPORT.

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Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: VENTILATE AREA--ESPECIALLY LOW PLACES WHERE
HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED
BREATHING APPARATUS FOR LARGE SPILL.
Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL

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

Precautions-Handling/Storing: STORE IN CLEAN, DRY AREA. DON'T HEAT >125F. AVOID BREATHING VAPORS & LIQUID CONTACT W/SKIN. USE IN WELL-VENTILATED AREAS.

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Control Measures
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Respiratory Protection: UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS REQUIRED WHEN USING THIS PRODUCT. SELF-CONTAINED BREATHING APPARATUS IS REQUIRED IF A SPILL OR RELEASE OCCURS. IN LOW PLACES.

Protective Gloves: NEOPRENE RUBBER

Eye Protection: CHEMICAL SPLASH GOGGLES
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Transportation Data
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Disposal Data
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Label Data
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Label Required: YES

Label Status: G

Common Name: FREON 502

Special Hazard Precautions: SKIN: FROSTBITE. INHALATION: HARMFUL, HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH, FATAL, NAUSEA, HEADACHE, WEKNESS, TEMPORARY NERVOUS SYSTEM DEPRESSION, ANAESTHETIC EFFECTS, DIZZINESS/CONFUSION/INCOORDINATION/LOSS OF CONSCIOUSNESS/ALTERATION OF HEARTS FROSTBITE. INHALATION: HARMFUL, HEART IRREGULARITIES, UNCONSCIOUSNESS, DEATH, FATAL, NAUSEA, HEADACHE, WEAKNESS, TEMPORARY NERVOUS SYSTEM DEPRESSION, ANAESTHETIC EFFECTS, DIZZINESS/CONFUSION/INCOORDINATION/LOSS OF CONSCIOUSNESS/ALTERNATION OF HEARTS ELECTRICAL ACTIVITY W/IRREGULAR PULSE/CIRCULATION/PALPITATIONS.

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