

E I DUPONT AND--PN:209510 FREON 12 WITH DYTEL, CONC LEAK DETECTIVE - FREON 12
MATERIAL SAFETY DATA SHEET
E I DUPONT ANDNSN: 4940007631318
Manufacturer's CAGE: 73925
Part No. Indicator: A
Part Number/Trade Name: PN:209510 FREON 12 WITH DYTEL, CONC LEAK DETECTIVE

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General Information
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Item Name: FREON 12
Company's Name: E. I. DUPONT DE NEMOURS AND COMPANY
Company's Street: FREON PRODUCTS DIVISION
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 #: 302-774-2421/800-441-9450
Distributor/Vendor # 1: BALKAMP INC (317-248-0760)
Distributor/Vendor # 1 Cage: 70842
Distributor/Vendor # 2: NATIONAL AUTOMOTIVE PARTS ASSN/NAPA/
Distributor/Vendor # 2 Cage: 050Q3
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 07AUG89
Safety Data Review Date: 19FEB97
Supply Item Manager: N35
MSDS Preparer's Name: K.P. BROWN
Preparer's Company: DUPONT CON INC, CHEM & PIGMENTS DEPT.
Preparer's St Or P. O. Box: CHESTNUR RUN PLAZA, POB 80709
Preparer's City: WILMINGTON (PHONE:302-999-5072)
Preparer's State: DE
Preparer's Zip Code: 19889-0709
MSDS Serial Number: CCVRT
Specification Number: UNKNOWN
Hazard Characteristic Code: J7
Unit Of Issue: CN
Unit Of Issue Container Qty: 15 OZ
Type Of Container: CAN
Net Unit Weight: 15 OZ

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: DICHLORODIFLUOROMETHANE (SARA 313) (CERCLA) (FREON 12)
Ingredient Sequence Number: 01
Percent: >99
NIOSH (RTECS) Number: PA8200000
CAS Number: 75-71-8
OSHA PEL: 1000 PPM
ACGIH TLV: 1000 PPM; 9596
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: LIQUEFIED GAS (HOMOGENEOUS), CLEAR FLUID, COLORLESS,

SLIGHT ETHEREAL ODOR.
Boiling Point: -22F,-30C
Melting Point: NP
Vapor Pressure (MM Hg/70 F): 4700MM@25C
Vapor Density (Air=1): 4.26 @25C
Specific Gravity: 1.315G/CC @25C
Decomposition Temperature: >1400F,>760
Evaporation Rate And Ref: FASTER THAN ETHER
Solubility In Water: 0.028% @1ATM/25C
Percent Volatiles By Volume: 100
Viscosity: NP
pH: NEUTRA
Corrosion Rate (IPY): NP
Autoignition Temperature: N/DETR

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Fire and Explosion Hazard Data
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Flash Point: WILL NOT BURN
Lower Explosive Limit: NA
Upper Explosive Limit: NA
Extinguishing Media: AS APPROPRIATE FOR COMBUSTABLES IN AREA.
Special Fire Fighting Proc: SELF-CONTAINED BREATHING APPARATUS (SCBA) IS
REQUIRED IF CYLINDERS RUPTURE & CONTENTS ARE SPILLED UNDER FIRE CONDITIONS.
Unusual Fire And Expl Hazrds: USE WATERSPRAY OR FOG TO COOL CNTNRS.
CYLINDERS MAY RUPTURE UNDER FIRE CONDITIONS. DECOMPOSITION MAY OCCUR.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): AVOID OPEN FLAMES & HIGH TEMPERATURES.
Materials To Avoid: ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE,
ETC.
Hazardous Decomp Products: DECOMPO BY HI TENP(OPN FLAMES,GLOW METAL
SURFACES,ETC)-FORMS HYDROCHLORIC & HYDROFLUORIC ACIDS & POSSIBLY CARBONYL
HALID
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT APPLICABLE

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Health Hazard Data
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LD50-LC50 Mixture: ORAL LD50: 1000MG/KG IN RATS.
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: INHAL OF HIGH VAP CONCEN HARMFUL,MAY CAUSE
HEART IRREG,UNCONSC,DEATH.INENTIONAL MISUSE CAN BE FATAL.VAP REDUCES OXY
AVAI FOR BREATH,HEAVIER THAN AIR.LIQ CONTACT CAN CAUSE FROSTBITE.EYE IRRIT
W/DISCOMFORT,TEARING,BLUR VISION.SKIN CONTACT W/LIQ MAY CAUSE TEMP NERV SYS
DEPRESS W/ANAESTHETIC EFFECTS(DIZZ,HEAD, (SUPPLEMENT))
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: PER MSDS:NOT LISTED AS CARCINOGEN BY IARC,
NTP,OSHA,ACGIH.
Signs/Symptoms Of Overexp: HARMFUL,HEART IRREGULARITIES,UNCONSC,DEATH,
REDUCES OXY AVAILABLE FOR BREATH,FROSTBITE,EYE IRRIT W/DISCOMFT,TEARING,
BLURRED OF VISION,TEMP NERVOUS SYST DEPRESS W/ANAESTHETIC EFFECTS-DIZZ,

HEAD, CONFUSION, INCOORD, UNCONSC. TEMP ALTERATION OF HEART ELECTRICAL
ACTIVITY W/IRREG PULSE, PALP, INADEQ CIRCULATION, EXCLUSION OF OXYGEN
Med Cond Aggravated By Exp: INDIVIDUALS W/PRE-EXISTING DISEASES OF CENTRAL
NERVOUS SYSTEM OR CARDIOVASCULAR SYSTEM MAY HAVE INCREASED SUSCEPTIBILITY TO
TOXICITY OF EXCESSIVE EXPOSURES.

Emergency/First Aid Proc: INHAL:IMMED REMOVE TO FRESH AIR.KEEP CALM. NOT
BREATH GIVE ART RESP;BREATH DIFFIC GIVE OXY.CALL DR.SKIN:FLUSH W/WATER.
TREAT FOR FROSTBITE IF NECESSARY.EYE:IMMED FLUSH W/PLENTY OF WATER.CALL DR.
INGEST:NOT CONSIDERED POTENTIAL EXPO ROUTE.NOTE TO DR:BECAUSE OF POSSIBLE
DISTURBANCES OF CARDIAC RYTHUM,CATECHOLAMINE DRUGS (EPINEPHRINE, EPHEDRINE)
SHOULD BE USED W/SPECIAL CAUT IN EMERG LIFE SUPPORT SITUATION

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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 (SCBA) FOR LG SPILLS.COMPLY W/FED/STATE/LOC REGS FOR REPORTING
RELEASES.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: COMPLY W/LOCAL, STATE AND FEDERAL REGULATIONS.
RECLAIM BY DISTILLATION OR REMOVE TO PERMITTED WASTE DISPOSAL FACILITY.

Precautions-Handling/Storing: AVOID BREATH VAP/LIQ CONTACT W/SKIN/EYES.USE
W/SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPO BELOW RECOMMENDED LIMITS.

Other Precautions: STORAGE:CLEAN DRY AREA;DO NOT HEAT ABOVE 125F.

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Control Measures

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Respiratory Protection: UNDER NORMAL CONDITIONS NO RESPIRATORY PROTECTION
IS REQUIRED WHEN USING THIS PRODUCT.SELF-CONTAINED BREATHING APPARATUS
(SCBA) IS REQUIRED IF LARGE RELEASE OCCURS.

Ventilation: NORMAL VENTI FOR STD MFG PROCEDURES GENERALLY ADEQUATE.LOC
EXHAU WHEN LG AMTS RELEASED.MECH VENTI USED IN LOW PLACES.

Protective Gloves: LINED BUTYL GLOVES.

Eye Protection: CHEM SPLASH GOGG.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Suppl. Safety & Health Data: HEALTH HAZ:CONFUSION, INCOORDINATION, UNCONSC)
.TEMP ALTERATION OFHEART ELECTRICAL ACTIVITY W/IRREG PULSE, PALPITATIONS,
INADEQU CIRCULATION,EFFECTS OF EXCLUSION OF OXY W/GROSSLY EXCESSIVE
OVEREXPO.

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Transportation Data

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Trans Data Review Date: 97050

DOT PSN Code: AGD

DOT Proper Shipping Name: AEROSOLS, NON-FLAMMABLE,

DOT Class: 2.2

DOT ID Number: UN1950

DOT Label: NONFLAMMABLE GAS

IMO PSN Code: AIY

IMO Proper Shipping Name: AEROSOL DISPENSERS

IMO Regulations Page Number: 9022

IMO UN Number: 1950

IMO UN Class: 9

IMO Subsidiary Risk Label: -

IATA PSN Code: ANB

IATA UN ID Number: 1950

IATA Proper Shipping Name: AEROSOLS, 20, *
IATA UN Class: 2.2
IATA Label: NON-FLAMMABLE GAS
AFI PSN Code: ANB
AFI Symbols: *
AFI Prop. Shipping Name: AEROSOLS, NON-FLAMMABLE, N.O.S.
AFI Class: 2.2
AFI ID Number: UN1950
AFI Basic Pac Ref: A6.3
N.O.S. Shipping Name: DICHLORODIFLUOROMETHANE CFC-12 MIXTURE.
Additional Trans Data: PER MSDS:SHIPPING CNTNRS:CYL,TON TKS,TK CARS, DOT
PROPER SHIPPING NAME: DICHLORODIFLUOROMETHANE CFC-12 MIXTURE, NON- FLAMM
GAS, GREEN LABEL, CLASS 2, UN1028.

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 19FEB97
Label Status: F
Common Name: PN:209510 FREON 12 WITH DYTEL, CONC LEAK DETECTIVE
Chronic Hazard: YES
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: HI VAP CONCEN INHAL HARMFUL, HEART IRREG,
UNCONSC, DEATH. VAP REDUCES OXY AVAIL FOR BREATH, HEAVIER THAN AIR. LIQ CAN
CAUSE FROSTBITE. EYE IRRIT W/DISCOMFT, TEAR, BLUR VISION. LIQ CONTACT SKIN
CAUSE TEMP NERV SYS DEPRESS W/ANAESTHETIC EFFECTS (DIZZ, HEAD, CONFUS, INCOORD,
UNCONSC). TEMP ALTER OF HEART ELECTRICAL ACITIVITY W/IRREG PULSE, PALP, INADE
CIRCULA. 1ST AID: INHAL: IMMEDIATELY MOVE TO FRESH AIR. NOT BREATH GIVE ART RESP;
BREATH DIFFICULT GIVE OXY. CALL DR. SKIN: FLUSH W/WATER. TREAT FOR FROSTBITE IF
NECESSARY. EYE: IMMEDIATELY FLUSH W/LOTS OF WATER. CALL DR. DR: BECAUSE OF POSSIBLE
DISTURB OF CARDIAC RYTHUM, CATECHOLAMINE DRUGS SHOULD BE USED W/SPEC CAUT IN
EMERG LIFE SUPPORT SITUATIO
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: E. I. DUPONT DE NEMOURS AND COMPANY
Label Street: FREON PRODUCTS DIVISION
Label City: WILMINGTON
Label State: DE
Label Zip Code: 19898
Label Country: US
Label Emergency Number: 800-441-3637/800-424-9300 (CHEMTREC)