

CHEMTRONICS -- E-SERIES FREEZ-IT 2000 ANTISTAT - FREEZING COMPOUND
MATERIAL SAFETY DATA SHEET
NSN: 6850013331841
Manufacturer's CAGE: 21267
Part No. Indicator: B
Part Number/Trade Name: E-SERIES FREEZ-IT 2000 ANTISTAT

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General Information
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Item Name: FREEZING COMPOUND
Company's Name: CHEMTRONICS INC
Company's Street: 8125 COBB CENTER DRIVE
Company's City: KENNESAW
Company's State: GA
Company's Country: US
Company's Zip Code: 30144
Company's Emerg Ph #: 800-424-9300 CHEMTREC
Company's Info Ph #: 800-645-5244
Record No. For Safety Entry: 004
Tot Safety Entries This Stk#: 005
Status: FE
Date MSDS Prepared: 14JUL94
Safety Data Review Date: 22FEB96
Supply Item Manager: CX
MSDS Preparer's Name: MICHAEL S. WATKINS
MSDS Serial Number: BWZSP
Specification Number: NONE
Spec Type, Grade, Class: NONE
Hazard Characteristic Code: J7
Unit Of Issue: BX
Unit Of Issue Container Qty: 12 X 14-150Z
Type Of Container: IP7B/4G
Net Unit Weight: 10.5-11.3LB

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: 1, 1, 1, 2-TETRAFLUOROETHANE
Ingredient Sequence Number: 01
Percent: 94-99.9
NIOSH (RTECS) Number: 1008365TE
CAS Number: 811-97-2
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA)
Ingredient Sequence Number: 02
Percent: 0.1-1.5
NIOSH (RTECS) Number: PC1400000
CAS Number: 67-56-1
OSHA PEL: S, 200 PPM
ACGIH TLV: S, 200PPM/250STEL; 95
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR, COLORLESS LIQUIFIED GAS IN AEROSOL CAN; SLIGHT ETHEREAL ODOR.

Boiling Point: - 16F, - 27C

Melting Point: UNKNOWN

Vapor Pressure (MM Hg/70 F): 4264 MM HG

Vapor Density (Air=1): 3.18

Specific Gravity: 1.21

Decomposition Temperature: UNKNOWN

Evaporation Rate And Ref: <1 (N-BUTYL ACETATE=1)

Solubility In Water: SLIGHT

Percent Volatiles By Volume: 100

Viscosity: UNKNOWN

Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data

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Flash Point: NONE

Flash Point Method: TCC

Extinguishing Media: WATER FOG, CARBON DIOXIDE, ALCOHOL FOAM

Special Fire Fighting Proc: WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire And Expl Hazrds: NONE SPECIFIED BY MANUFACTURER.

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Reactivity Data

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Stability: YES

Cond To Avoid (Stability): DO NOT SPRAY NEAR OPEN FLAMES, RED HOT SURFACES OR OTHER SOURCES OF IGNITION.

Materials To Avoid: POWDERED ALKALI & ALKALINE EARTH METALS, STRONG OXIDIZING AGENTS.

Hazardous Decomp Products: THERMAL DECOMPOSITION MAY RELEASE HYDROFLUORIC ACID AND POSSIBLY CARBONYL HALIDES.

Hazardous Poly Occur: NO

Conditions To Avoid (Poly): WILL NOT OCCUR.

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Health Hazard Data

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LD50- LC50 Mixture: UNKNOWN

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: NO

Route Of Entry - Ingestion: NO

Health Haz Acute And Chronic: ACUTE: HARMFUL IF INHALED IN LARGE CONCENTRATION; MAY CAUSE ASPHYXIATION. CONTACT MAY CAUSE EYE IRRITATION; FROSTBITE TO SKIN AND/OR EYES. INGESTION IS NOT A LIKELY ROUTE OF EXPOSURE; CONTACT MAY CAUSE FROSTBITE TO LIPS AND MOUTH. CHRONIC: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION.

Carcinogeni ci ty - NTP: NO

Carcinogeni ci ty - IARC: NO

Carcinogeni ci ty - OSHA: NO

Explanation Carcinogeni ci ty: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUEPECTED CARCINOGEN.

Signs/Symptoms Of Overexp: INHALED- DIZZINESS, UNCONSCIOUSNESS. SKIN- IRRITATION, FROSTBITE. EYES- IRRITATION, FROSTBITE.

Med Cond Aggravated By Exp: HEART, LUNG, SKIN, EYE.

Emergency/First Aid Proc: INHALATION- REMOVE TO FRESH AIR. GIVE ARTIFICAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET

MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN-WASH WITH PLENTY OF SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INGESTED- INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. GET MEDICAL ATTENTION.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: ABSORB SPILL WITH INERT MATERIAL THEN PLACE IN CHEMICAL WASTE CONTAINER FOR PROPER DISPOSAL. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. IF PRODUCT REACHES WATERWAY CALL 800- 424- 8802- USCG NATIONAL RESPONSE CENTER.

Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL ENVIRONMENTAL REGULATIONS. WATER RUN-OFF CAN CAUSE ENVIRONMENTAL DAMAGE. ENVIRONMENTAL DATA: SARA 313-METHANOL, CAS# 67- 65- 1, 0. 1- 1. 0%. CONTAINS HFC- 99. 1%.

Precautions- Handling/Storing: USE WITH ADEQUATE VENTILATION. STORE IN A COOL, DRY PLACE AWAY FROM SOURCES OF IGNITION AND STRONG OXIDIZING AGENTS. DO NOT STORE IN DIRECT SUNLIGHT.

Other Precautions: KEEP CONTAINER CLOSED WHEN NOT IN USE. DO NOT REUSE CONTAINER. KEEP OUT OF REACH OF CHILDREN!! AVOID BREATHING VAPOR OR MIST. AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN AND CLOTHING. DO NOT PUNCTURE OR INCINERATE CANS.

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Control Measures

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Respiratory Protection: NONE SPECIFIED BY MANUFACTURER. DLA- HMIS: 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 IN ACCORDANCE WITH 29 CFR 1910. 134.

Ventilation: USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves: NONE SPECIFIED BY MANUFACTURER.

Eye Protection: SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygienic Practices: WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Suppl. Safety & Health Data: MSDS PRESENTED BY CAGE 21267 FOR CONTRACT NUMBER SP0450- 95- D- 4079.

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Transportation Data

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Trans Data Review Date: 98054

DOT PSN Code: OAB

DOT Proper Shipping Name: 1, 1, 1, 2- TETRAFLUOROETHANE OR REFRIGERANT GAS R 134A *

DOT Class: 2. 2

DOT ID Number: UN3159

DOT Label: NON- FLAMMABLE GAS

DOT/DoD Exemption Number: DOT- E- 10232

IMD PSN Code: AKD

IMD Proper Shipping Name: AEROSOLS o

IMD Regulations Page Number: 2102

IMD UN Number: 1950

IMD UN Class: 2(T)

IMD Subsidiary Risk Label: T

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 Prop. Shipping Name: AEROSOLS, NON-FLAMMABLE, N. O. S.
AFI Class: 2.2
AFI ID Number: UN1950
AFI Special Prov: P4
AFI Basic Pac Ref: A6.3
MMAC Code: NR
N. O. S. Shipping Name: 1, 1, 1, 2-TETRAFLUOROETHANE
Additional Trans Data: 12X14- 15 OZ AEROSOL CANS/BX. EXEMPTION DOT-
E- 10232, EXPIRES 31JAN99.

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Disposal Data

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Label Data

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Label Required: YES
Technical Review Date: 22FEB96
Label Status: F
Common Name: E-SERIES FREEZ-IT 2000 ANTISTAT
Chronic Hazard: YES
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-Moderate: X
Fire Hazard-Slight: X
Reactivity Hazard-None: X
Special Hazard Precautions: HARMFUL IF INHALED IN LARGE CONCENTRATION; MAY CAUSE ASPHYXIATION. CONTACT MAY CAUSE EYE IRRITATION; FROSTBITE TO SKIN, EYES, LIPS & MOUTH. PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION. TARGET ORGANS: HEART, LUNG, SKIN, EYES. FIRST AID: INHALATION- REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION. EYES- FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. SKIN- WASH WITH PLENTY OF SOAP & WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. INGESTED- INDUCE VOMITING AS DIRECTED BY MEDICAL PERSONNEL. GET MEDICAL ATTENTION.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: CHEMTRONICS INC
Label Street: 8125 COBB CENTER DRIVE
Label City: KENNESAW
Label State: GA
Label Zip Code: 30144
Label Country: US
Label Emergency Number: 800- 424- 9300 CHEMTREC
Year Procured: 1995