

CRAMER PRODUCTS -- CRAMER COLD SPRAY
MATERIAL SAFETY DATA SHEET
NSN: 685000D004343
Manufacturer's CAGE: 24719
Part No. Indicator: A
Part Number/Trade Name: CRAMER COLD SPRAY

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General Information
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Company's Name: CRAMER PRODUCTS, INC.
Company's Street: 153 WEST WARREN
Company's City: GARDNER
Company's State: KS
Company's Country: US
Company's Zip Code: 66030
Company's Emerg Ph #: 913-884-7511
Company's Info Ph #: 913-884-7511
Distributor/Vendor # 1: DAKOTA SPORTS
Distributor/Vendor # 1 Cage: 0FBL1
Record No. For Safety Entry: 001
Tot Safety Entries This Stk#: 001
Status: SE
Date MSDS Prepared: 27MAY94
Safety Data Review Date: 20MAR96
Supply Item Manager: CX
MSDS Serial Number: BYGDS
Hazard Characteristic Code: F1

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: BUTANE
Ingredient Sequence Number: 01
Percent: 40-45 %
NIOSH (RTECS) Number: EJ4200000
CAS Number: 106-97-8
OSHA PEL: 800 PPM
ACGIH TLV: 800 PPM; 9192
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: ISOPENTANE
Ingredient Sequence Number: 02
Percent: 35-40 %
NIOSH (RTECS) Number: EK4430000
CAS Number: 78-78-4
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: 1,1,1,2-TETRAFLUOROETHANE
Ingredient Sequence Number: 03
Percent: 15-20 %
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: ISOPROPYL ALCOHOL (SARA III)
Ingredient Sequence Number: 04
Percent: < 2%
NIOSH (RTECS) Number: NT8050000

CAS Number: 67-63-0
OSHA PEL: 400 PPM/500 STEL
ACGIH TLV: 400 PPM/500STEL;9192
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics
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Appearance And Odor: CLEAR COLORLESS LIQUID, SLIGHT ETHER ODOR
Boiling Point: -15F,-26C
Melting Point: NOT GIVEN
Vapor Pressure (MM Hg/70 F): 48 PSIG
Vapor Density (Air=1): > 1
Specific Gravity: NOT GIVEN
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: > 1 (N-BUTYL ACETATE=1)
Solubility In Water: NEGLIGIBLE
Percent Volatiles By Volume: >85%
Corrosion Rate (IPY): UNKNOWN

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Fire and Explosion Hazard Data
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Flash Point: <100F,<38C
Lower Explosive Limit: 1.80 %
Upper Explosive Limit: 8.40 %
Extinguishing Media: FOAM, CARBON DIOXIDE, DRY CHEMICAL
Special Fire Fighting Proc: FIRE FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. COOL TANKS AND CONTAINERS EXPOSED TO FIRE WITH WATER.
Unusual Fire And Expl Hazrds: CONTENTS ARE FLAMMABLE AND UNDER PRESSURE; IF RELEASED WOULD ADD TO FIRE INTENSITY. RUPTURING CONTAINERS MAY BECOME PROJECTILES.

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Reactivity Data
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Stability: YES
Cond To Avoid (Stability): HEAT, SPARKS, OPEN FLAME, ANY SOURCE OF IGNITION.
Materials To Avoid: NONE SPECIFIED BY MANUFACTURER.

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Health Hazard Data
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Precautions for Safe Handling and Use
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Control Measures
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Transportation Data
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Trans Data Review Date: 96080
DOT PSN Code: AGC
DOT Proper Shipping Name: AEROSOLS, FLAMMABLE,
DOT Class: 2.1
DOT ID Number: UN1950
DOT Label: FLAMMABLE GAS
IMO PSN Code: AKD
IMO Proper Shipping Name: AEROSOLS o
IMO Regulations Page Number: 2102
IMO UN Number: 1950
IMO UN Class: 2(T)
IMO Subsidiary Risk Label: T
IATA PSN Code: ALS
IATA UN ID Number: 1950
IATA Proper Shipping Name: AEROSOLS, FLAMMABLE, N.O.S. *

IATA UN Class: 2.1
IATA Label: FLAMMABLE GAS
AFI PSN Code: ALR
AFI Symbols: *
AFI Prop. Shipping Name: AEROSOLS, FLAMMABLE, N.O.S.
AFI Class: 2.1
AFI ID Number: UN1950
AFI Basic Pac Ref: A6.3
N.O.S. Shipping Name: CONTAINS N-BUTANE, ISOPENTANE

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 20MAR96
MFR Label Number: NONE
Label Status: F
Common Name: CRAMER COLD SPRAY
Chronic Hazard: NO
Signal Word: WARNING!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-Moderate: X
Reactivity Hazard-None: X
Special Hazard Precautions: INTENTIONAL MISUSE OR DELIBERATE INHALATION
MAY CAUSE DEATH WITHOUT WARNING. MAY CAUSE FROSTBITE TO SKIN. INGESTION MAY
CAUSE GI TRACT IRRITATION. PRODUCT IS AN AEROSOL. DO NOT PUNCTURE OR
EYES: FLUSH WITH WATER FOR 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET
MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND
DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.
Protect Eye: Y
Label Name: CRAMER PRODUCTS, INC.
Label Street: 153 WEST WARREN
Label City: GARDNER
Label State: KS
Label Zip Code: 66030
Label Country: US
Label Emergency Number: 913-884-7511