

CRAMER PRODUCTS -- CRAMER TUF-SKIN (COLORLESS & ORIGINAL)  
MATERIAL SAFETY DATA SHEET  
NSN: 655000D004341  
Manufacturer's CAGE: 24719  
Part No. Indicator: A  
Part Number/Trade Name: CRAMER TUF-SKIN (COLORLESS & ORIGINAL)

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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: OFBL1  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SE  
Date MSDS Prepared: 03SEP93  
Safety Data Review Date: 21MAR96  
Supply Item Manager: CX  
MSDS Serial Number: BYGDQ  
Hazard Characteristic Code: F1

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Ingredients/Identity Information  
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Proprietary: NO  
Ingredient: ISOBUTANE (INGREDIENTS 1-3 COMPRISE PROPELLANT-TOTAL >25%)  
Ingredient Sequence Number: 01  
NIOSH (RTECS) Number: TZ4300000  
CAS Number: 75-28-5  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO  
Ingredient: PROPANE (INGREDIENTS 1-3 COMPRISE PROPELLANT- TOTAL>25%)  
Ingredient Sequence Number: 02  
NIOSH (RTECS) Number: TX2275000  
CAS Number: 74-98-6  
OSHA PEL: 1000 PPM  
ACGIH TLV: ASPHYXIAN; 9192  
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO  
Ingredient: BUTANE (INGREDIENTS 1-3 COMPRISE PROPELLANT - TOTAL>25%)  
Ingredient Sequence Number: 03  
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: ISOPROPYL ALCOHOL (SARA III)  
Ingredient Sequence Number: 04  
Percent: >60 %  
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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Proprietary: NO  
Ingredient: ROSIN ACID  
Ingredient Sequence Number: 05  
Percent: >10%  
NIOSH (RTECS) Number: 1003892RA  
CAS Number: 8050-09-7  
OSHA PEL: NOT ESTABLISHED  
ACGIH TLV: NOT ESTABLISHED  
Other Recommended Limit: NONE RECOMMENDED  
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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR SPRAY WITH SCENTED ALCOHOL ODOR AND STICKY  
RESIDUE  
Boiling Point: NOT GIVEN  
Melting Point: NOT GIVEN  
Vapor Pressure (MM Hg/70 F): 50 PSIG  
Vapor Density (Air=1): < 1  
Specific Gravity: NOT GIVEN  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: 2.3 (N-BUTYL ACETATE=1)  
Solubility In Water: PARTIAL  
Percent Volatiles By Volume: >85%  
Corrosion Rate (IPY): UNKNOWN  
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Fire and Explosion Hazard Data

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Flash Point: -50F, -46C  
Flash Point Method: CC  
Lower Explosive Limit: 2.00 %  
Upper Explosive Limit: 12.0 %  
Extinguishing Media: 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. AEROSOL PRODUCT.  
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: ANHYDRIDES, ISOCYANATES, ORGANOMETALLICS, OXYGEN AND  
OXIDIZERS  
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Health Hazard Data

Precautions for Safe Handling and Use

Control Measures

Transportation Data

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Trans Data Review Date: 96081  
DOT PSN Code: AGC  
DOT Proper Shipping Name: AEROSOLS, FLAMMABLE,  
DOT Class: 2.1  
DOT ID Number: UN1950  
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DOT Label: FLAMMABLE GAS  
IMO PSN Code: AKH  
IMO Proper Shipping Name: AEROSOLS/AEROSOL PRODUCT  
IMO Regulations Page Number: SEE 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, NON-FLAMMABLE, N.O.S. \*  
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: CONTAINS ISOBUTANE, PROPANE, N-BUTANE

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Disposal Data  
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Label Data  
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Label Required: YES  
Technical Review Date: 21MAR96  
MFR Label Number: NONE  
Label Status: F  
Common Name: CRAMER TUF-SKIN (COLORLESS & ORIGINAL)  
Chronic Hazard: YES  
Signal Word: WARNING!  
Acute Health Hazard-Moderate: X  
Contact Hazard-Slight: X  
Fire Hazard-Moderate: X  
Reactivity Hazard-None: X  
Special Hazard Precautions: PRODUCT IS AN AEROSOL. DONOT USE NEAR FIRE,  
FLAME OR HOT SURFACES. DO NOT PUNCTURE OR INCINERATE. DO NOT EXPOSE TO HEAT  
OR STORE AT TEMPERATURES>120F. FIRST AID: EYES: FLUSH WITH WATER FOR 15  
MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE  
CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. TREAT FOR FROSTBITE IF  
NECESSARY. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. RESTORE  
BREATHING. GET MEDICAL ATTENTION. INGESTION: IMMEDIATELY DRINK TWO GLASSES  
OF WATER AND INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.  
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