

CRAMER PRODUCTS -- TUF-SKIN (COLORLESS & ORIGINAL) - NONE
MATERIAL SAFETY DATA SHEET
NSN: 681000N017694
Manufacturer's CAGE: 24719
Part No. Indicator: B
Part Number/Trade Name: TUF-SKIN (COLORLESS & ORIGINAL)

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General Information
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Item Name: NONE
Company's Name: CRAMER PRODUCTS, INC.
Company's Street: 153 W. WARREN
Company's P. O. Box: NONE
Company's City: GARDENER
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 INC (605-332-2131)
Distributor/Vendor # 1 Cage: 0FBL1
Record No. For Safety Entry: 002
Tot Safety Entries This Stk#: 002
Status: SM
Date MSDS Prepared: 03SEP93
Safety Data Review Date: 27MAY96
Supply Item Manager: CX
MSDS Serial Number: BXVHJ
Specification Number: NONE
Spec Type, Grade, Class: NONE
Hazard Characteristic Code: F1
Unit Of Issue Container Qty: UNKNOWN
Type Of Container: UNKNOWN
Net Unit Weight: UNKNOWN
NRC/State License Number: NONE
Net Propellant Weight-Ammo: NONE

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: ISOPROPYL ALCOHOL (SARA 313)
Ingredient Sequence Number: 01
Percent: 60
NIOSH (RTECS) Number: NT8050000
CAS Number: 67-63-0
OSHA PEL: 400 PPM
ACGIH TLV: 400 PPM/500STEL;9495
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: ROSIN ACID
Ingredient Sequence Number: 02
Percent: >10
NIOSH (RTECS) Number: 1003892RA
CAS Number: 8050-09-7
OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: MFR LISTS INGREDIENT AS "HYDROCARBON PROPELLANT" CONSISTING OR
THE FOLLOWING THREE GASES.
Ingredient Sequence Number: 03
Percent: >25
NIOSH (RTECS) Number: 9999999ZZ

OSHA PEL: NOT ESTABLISHED
ACGIH TLV: NOT ESTABLISHED
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: ISOBUTANE
Ingredient Sequence Number: 04
Percent: UNKNOWN
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
Ingredient Sequence Number: 05
Percent: UNKNOWN
NIOSH (RTECS) Number: TX2275000
CAS Number: 74-98-6
OSHA PEL: 1000 PPM
ACGIH TLV: ASPHYXIAN; 9495
Other Recommended Limit: NONE RECOMMENDED

Proprietary: NO
Ingredient: BUTANE
Ingredient Sequence Number: 06
Percent: UNKNOWN
NIOSH (RTECS) Number: EJ4200000
CAS Number: 106-97-8
OSHA PEL: 800 PPM
ACGIH TLV: 800 PPM; 9495
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR SPRAY W/SCENTED ALCOHOL ODOR & STICKY RESIDUE
Boiling Point: N/A
Melting Point: N/A
Vapor Pressure (MM Hg/70 F): 50 PSIG
Vapor Density (Air=1): <1
Specific Gravity: N/A
Decomposition Temperature: UNKNOWN
Evaporation Rate And Ref: 2.3 (N-BUAC = 1)
Solubility In Water: PARTIAL
Percent Volatiles By Volume: >85
Viscosity: UNKNOWN
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
Upper Explosive Limit: 12
Extinguishing Media: CARBON DIOXIDE OR DRY CHEMICAL.
Special Fire Fighting Proc: THIS IS AN AEROSOL PRODUCT. USE PROCEDURES FOR FLAMMABLE AEROSOLS.
Unusual Fire And Expl Hazrds: CONTENTS ARE FLAMMABLE & 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): AVOID HEAT, SPARKS, OPEN FLAME.
Materials To Avoid: ANHYDRIDES, ISOCYANATES, ORGANOMETALLICS, OXYGEN & OXIDIZERS
Hazardous Decomp Products: THERMAL DECOMPOSITION OR BURNING MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): WILL NOT OCCUR.

Health Hazard Data

LD50-LC50 Mixture: PRODUCT'S LD50 (ORAL RAT) WAS NOT STATED
Route Of Entry - Inhalation: YES
Route Of Entry - Skin: YES
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYES: CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN: PROLONGED/REPEATED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS. BREATHING: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL & RESPIRATORY IRRITATION, HEADACHE. POSSIBLE UNCONSCIOUSNESS, EVEN DEATH. SWALLOWING: G/I IRRITATION, NAUSEA, VOMITING.
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: MANUFACTURER GAVE NO INFORMATION ABOUT CARCINOGENICITY. HMIS FOUND NO LISTING & DOES NOT EXPECT IT TO BE CARCINOGENIC.
Signs/Symptoms Of Overexp: EYES: SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION. SKIN: MODERATE IRRITATION, DEFATTING, DERMATITIS. BREATHING: NASAL & RESPIRATORY IRRITATION, HEADACHE. POSSIBLE UNCONSCIOUSNESS, EVEN DEATH. SWALLOWING: G/I IRRITATION, NAUSEA, VOMITING, DIARRHEA.
Med Cond Aggravated By Exp: MFR GAVE NO INFORMATION ON MSDS.
Emergency/First Aid Proc: IF ANY IRRITATION PERSISTS OR SEVERE, GET MEDICAL ATTENTION. EYE: FLUSH W/WATER FOR 15 MIN. SKIN: THOROUGHLY WASH EXPOSED AREA W/SOAP & WATER. INHALED: REMOVE FROM CONTAMINATED AREA. ADMINISTER OXYGEN. CONSULT PHYSICIAN. INGESTED: IMMEDIATELY DRINK TWO GLASSES OF WATER & INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: ELIMINATE ALL SOURCES OF IGNITION. SMALL SPILLS SHOULD BE FLUSHED W/LARGE QUANTITIES OF WATER. LARGER SPILLS SHOULD BE COLLECTED FOR DISPOSAL.
Neutralizing Agent: MFR GAVE NO INFORMATION ON MSDS.
Waste Disposal Method: DISPOSE OF PRODUCT I/A/W APPLICABLE FEDERAL, STATE, COUNTY & LOCAL REGULATIONS
Precautions-Handling/Storing: PRODUCT IS AN AEROSOL. DO NOT USE NEAR FIRE, FLAME OR HOT SURFACES. DO NOT PUNCTURE OR INCINERATE. DO NOT EXPOSE TO HEAT OR STORE >120F.
Other Precautions: KEEP OUT OF REACH OF CHILDREN.

Control Measures

Respiratory Protection: NONE REQUIRED IN NORMAL USE. AS W/ALL SPRAYS, BREATHING MIST SHOULD BE AVOIDED.
Ventilation: USE IN WELL VENTILATED AREA.
Protective Gloves: NONE REQUIRED.
Eye Protection: NOT REQUIRED
Other Protective Equipment: NOT REQUIRED
Work Hygienic Practices: MFR GAVE NO INFORMATION ON MSDS.
Suppl. Safety & Health Data: NONE

Transportation Data

Trans Data Review Date: 96148
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: 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: 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
MMAC Code: NK
Additional Trans Data: IF SHIPPED DOMESTICALLY, PRODUCT MAY BE SHIPPED AS
A CONSUMER COMMODITY, ORM-D.

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 27MAY96
MFR Label Number: NONE
Label Status: F
Common Name: TUF-SKIN (COLORLESS & ORIGINAL)
Signal Word: DANGER!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-Severe: X
Reactivity Hazard-None: X
Special Hazard Precautions: **TARGET-ORGANS:EYES** EYES:CAN CAUSE SEVERE
IRRITATION,REDNESS,TEARING,BLURRED VISION. SKIN:PROLONGED/REPEATED CONTACT
CAN CAUSE MODERATE IRRITATION,DEFATTING,DERMATITIS. BREATHING:EXCESSIVE
INHALATION OF VAPORS CAN CAUSE NASAL & RESPIRATORY IRRITATION,HEADACHE.
POSSIBLE UNCONSCIOUSNESS,EVEN DEATH. SWALLOWING:G/I IRRITATION,NAUSEA,
VOMITING. PRODUCT IS AN AEROSOL. DO NOT USE NEAR FIRE, FLAME OR HOT
SURFACES. DO NOT PUNCTURE OR INCINERATE. DO NOT EXPOSE TO HEAT OR STORE
>120F. IN CASE OF SPILL: ELIMINATE ALL SOURCES OF IGNITION. SMALL SPILLS
SHOULD BE FLUSHED W/LARGE QUANTITIES OF WATER. LARGER SPILLS SHOULD BE
COLLECTED FOR DISPOSAL.
Protect Respiratory: Y
Label Name: CRAMER PRODUCTS, INC.
Label Street: 153 W. WARREN
Label P.O. Box: NONE
Label City: GARDENER
Label State: KS
Label Zip Code: 66030
Label Country: US
Label Emergency Number: 913-884-7511
Year Procured: 1996