

ENSIGN-BICKFORD -- DESENSITIZED RDX
 MATERIAL SAFETY DATA SHEET
 ENSIGN-BICKFORD AS OF January 1999
 NSN: 685000N019215
 Manufacturer's CAGE: 0B2N1
 Part No. Indicator: A
 Part Number/Trade Name: DESENSITIZED RDX

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 General Information
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Company's Name: ENSIGN-BICKFORD COMPANY
 Company's Street: 660 HOPMEADOW STREET
 Company's City: SIMSBURY
 Company's State: CT
 Company's Country: US
 Company's Zip Code: 06070
 Company's Emerg Ph #: 203-658-4411
 Company's Info Ph #: 203-658-4411
 Record No. For Safety Entry: 001
 Tot Safety Entries This Stk#: 001
 Status: SMJ
 Date MSDS Prepared: 18DEC90
 Safety Data Review Date: 12JUL95
 MSDS Preparer's Name: E L STEARNS
 Preparer's Company: SAME
 MSDS Serial Number: BLCSK
 Hazard Characteristic Code: E1

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 Ingredients/Identity Information
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Proprietary: NO
 Ingredient: CYCLONITE
 Ingredient Sequence Number: 01
 Percent: 100
 NIOSH (RTECS) Number: XY9450000
 CAS Number: 121-82-4
 OSHA PEL: S, 1.5 MG/M3
 ACGIH TLV: S, 1.5MG/M3; 9192

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 Physical/Chemical Characteristics
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Appearance And Odor: ODORLESS CRYSTALLINE SOLID W/COLOR RANGING FROM WHITE TO GREY DEPEND (SUPP DATA)
 Boiling Point: N/A
 Melting Point: 400F,204C
 Vapor Pressure (MM Hg/70 F): N/A
 Vapor Density (Air=1): N/A
 Specific Gravity: 1.82
 Evaporation Rate And Ref: NOT APPLICABLE
 Solubility In Water: INSOLUBLE
 Percent Volatiles By Volume: N/A

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 Fire and Explosion Hazard Data
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Flash Point: NOT APPLICABLE
 Extinguishing Media: NONE. SEE SPECIAL FIRE PROCEDURES.
 Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT (FP N). DO NOT FIGHT FIRES WHERE RDX IS PRESENT. ISOLATE AREA. EVACUATE PERSONNEL TO A SAFE AREA.
 Unusual Fire And Expl Hazrds: WILL DETONATE IF SUITABLY PRIMED WITH SEVERE IMPACT OR BY HEAT OR FLAME. HAZARDOUS GASES PRODUCED IN FIRE ARE NOX.

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 Reactivity Data
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Stability: YES
 Cond To Avoid (Stability): BECOMES UNSTABLE WITH EXPOSURE TO EXTREME HEAT, IMPACT, OR ELECTROSTATIC DISCHARGE.
 Materials To Avoid: NO KNOWN CHEMICAL INCOMPATIBILITIES.
 Hazardous Decomp Products: HAZARDOUS FUMES PRODUCED ARE NOX.

Hazardous Poly Occur: NO
 Conditions To Avoid (Poly): NOT RELEVANT

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 Health Hazard Data
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LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
 Route Of Entry - Inhalation: YES
 Route Of Entry - Skin: NO
 Route Of Entry - Ingestion: NO
 Health Haz Acute And Chronic: EYE & SKIN: NONE. INHAL: RDX POISONING VIA UNKNOWN.
 Carcinogenicity - NTP: NO
 Carcinogenicity - IARC: NO
 Carcinogenicity - OSHA: NO
 Explanation Carcinogenicity: NOT RELEVANT
 Signs/Symptoms Of Overexp: NONE SPECIFIED BY MANUFACTURER.
 Med Cond Aggravated By Exp: NONE SPECIFIED BY MANUFACTURER.
 Emergency/First Aid Proc: EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES.
 SKIN: WASH WITH SOAP AND WATER. INHAL: IF DETONATION FUMES ARE INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLE MOUTH TO MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL MD.
 INGEST: INDUCE VOMITING IMMEDIATELY BY GIVING TWO GLASSES OF WATER AND STICKING FINGER DOWN THROAT.

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 Precautions for Safe Handling and Use
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Steps If Matl Released/Spill: REVIEW FIRE & EXPLOSION HAZARDS AND SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. USE APPROPRIATE PERSONAL PROTECTION DURING CLEAN UP. MOP UP WITH WATER.
 Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
 Waste Disposal Method: CONSULT AN EXPLOSIVES MANUFACTURER FOR RECOMMENDED METHODS FOR DESTROYING EXPLOSIVE MATERIALS. COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.
 Precautions-Handling/Storing: TRANSPORTATION AND STORAGE MUST BE IN COMPLIANCE WITH STATE AND FEDERAL REGULATIONS.
 Other Precautions: REFER TO MANUFACTURER'S INSTRUCTIONS AND WARNINGS SUPPLIED WITH PRODUCT.

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 Control Measures
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Respiratory Protection: FILTER RESPIRATOR: NIOSH/MSHA APPROVED DUST RESPIRATOR. AVOID DUSTING BY KEEPING WET WHEN POSSIBLE.
 Ventilation: NOT APPLICABLE.
 Protective Gloves: BUTYL GLOVES.
 Eye Protection: CHEMICAL WORKERS GOGGLES (FP N).
 Other Protective Equipment: NONE.
 Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.
 Suppl. Safety & Health Data: APPEAR & ODOR: ON WAX AND/OR GRAPHITE CONTENT.

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 Transportation Data
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Trans Data Review Date: 91317
 DOT PSN Code: EEL
 DOT Proper Shipping Name: CYCLOTETRAMETHYLENETETRANITRAMINE, WETTED OR HMX, WETTED OR OCTOGEN, WETTED
 DOT Class: 1.1D
 DOT ID Number: UN0226
 DOT Pack Group: II
 DOT Label: EXPLOSIVE 1.1D
 IMO PSN Code: EZS
 IMO Proper Shipping Name: CYCLOTRIMETHYLENETRINITRAMINE, DESENSITIZED
 IMO Regulations Page Number: 1106
 IMO UN Number: 0483
 IMO UN Class: 1.1 D
 IMO Subsidiary Risk Label: -
 IATA PSN Code: IBH
 IATA UN ID Number: 0483
 IATA UN Class: 1.1D
 AFI PSN Code: IBH

AFI Symbols: T
AFI Prop. Shipping Name: CYCLOTRIMETHYLENETRINITRAMINE, CYCLONITE,
HEXOGEN, OR RDX, DESENSITIZED
AFI Class: 1.1D
AFI ID Number: UN0483
AFI Pack Group: II
AFI Basic Pac Ref: 5-42

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Disposal Data
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Label Data
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Label Required: YES
Technical Review Date: 01OCT91
Label Date: 01OCT91
Label Status: G
Common Name: DESENSITIZED RDX
Chronic Hazard: YES
Signal Word: WARNING!
Acute Health Hazard-Moderate: X
Contact Hazard-None: X
Fire Hazard-None: X
Reactivity Hazard-Moderate: X
Special Hazard Precautions: ACUTE: POISONING POSSIBLE VIA THE RESPIRATORY
SYSTEM CAN RESULT IN CNS IRREGULARITY. AVOID BREATHING DUSTS. DO NOT
BREATHE FUMES FROM DETONATION. WILL DETONATE IF PRIMED WITH SEVERE IMPACT
OR BY HEAT OR FLAME. KEEP AWAY FROM HEAT AND FLAME. DO NOT DROP. DO NOT
FIGHT FIRES WHERE THIS PRODUCT IS PRESENT. CHRONIC: POSSIBLE RDX POISONING.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: ENSIGN-BICKFORD COMPANY
Label Street: 660 HOPMEADOW STREET
Label City: SIMSBURY
Label State: CT
Label Zip Code: 06070
Label Country: US
Label Emergency Number: 203-658-4411