

**Material Safety Data Sheet**

**Name** A305-A993 AM382-AM990 PRIMACORD, DETONATING CO  
**Company** ENSIGN-BICKFORD

**MSDS** bzfbm  
**FSC** 1375

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**MSDS Safety Information**

FSC: 1375  
MSDS Date: 10/30/1995  
MSDS Num: BZFBM  
LIIN: 00F048178  
Product ID: A305-A993 AM382-AM990 PRIMACORD, DETONATING CORD, PRIMALINE  
MFN: 01  
Responsible Party  
Cage: 96336  
Name: ENSIGN-BICKFORD CO THE  
Address: 660 HOPMEADOW ST  
Box: 427  
City: SIMSBURY CT 06070-2420  
Info Phone Number: 203-651-2626  
Emergency Phone Number: 203-651-2626  
Preparer's Name: EDWIN J ZALEWSKI  
Review Ind: Y  
Published: Y

**Preparer Co. when other than Responsible Party Co.**

Cage: 96336  
Name: ENSIGN-BICKFORD CO  
Address: 660 HOPMEADOW STREET  
Box: 483  
City: SIMSBURY CT 06070-0483

**Contractor Summary**

Cage: 96336  
Name: ENSIGN-BICKFORD CO  
Address: 660 HOPMEADOW STREET  
Box: 483  
City: SIMSBURY CT 06070-0483  
Phone: 1-801-798-8613

**Ingredients**

Cas: 38082-89-2  
RTECS #: US7546500  
Name: 2,6-PYRIDINEDIAMINE, 3,5-DINITRO-N,N'-BIS(2,4,6-TRINITROPHENYL)-,  
2,6-BIS(PICRYLAMINO)-3,5-DINITROPYRIDINE, PYX, \*96-1\*

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Cas: 1336-21-6  
RTECS #: BQ9625000  
Name: AMMONIUM HYDROXIDE, AQUA AMMONIA \*96-1\*  
Other REC Limits: 25 PPM  
ACGIH TLV: 25 PPM  
EPA Rpt Qty: 1000 LBS  
DOT Rpt Qty: 1000 LBS

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Cas: 9004-34-6  
RTECS #: FJ5691460  
Name: CELLULOSE  
OSHA PEL: 5 MG/CUM  
ACGIH TLV: 10 MG/CUM (DUST)

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Cas: 126-73-8  
RTECS #: TC7700000  
Name: TRIBUTYL PHOSPHATE  
Other REC Limits: 0.2 PPM  
OSHA PEL: 5 MG/CUM  
ACGIH TLV: 2.2 MG/CUM

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Cas: 9002-88-4  
RTECS #: TQ3325000  
Name: POLYETHYLENE, POLYETHYLENE RESIN (HOMOPOLYMER); POLYWAX 1000  
(CARCINOGEN  
BY IARC GROUP 3) \*96-2\*

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Name: COTTON

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Name: POLYPROPYLENE

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Name: WAX,

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Cas: 78-11-5  
RTECS #: RZ6200000  
Name: PENTAERYTHRITOL TETRANITRATE

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Cas: 121-82-4  
RTECS #: XY9450000  
Name: CYCLONITE; S-TRIAZINE; HEXAHYDRO 1,3,5-TRINITRO;  
CYCLOTETRAMETHYLENETRINITRAMINE (RDX)  
ACGIH TLV: 1.5 MG/CUM (SKIN)

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Cas: 2691-41-0  
RTECS #: XF7450000  
Name: CYCLOTETRAMETHYLENETETRANITRAMINE (HMX)

### Health Hazards Data

Route Of Entry Inds - Inhalation: NO

Skin: NO

Ingestion: NO

Carcinogenicity Inds - NTP: NO

IARC: NO

OSHA: NO

*Effects of Exposure:* EYES: IRRITATION. INHALATION: CARDIOVASCULAR  
COLLAPSE, NASAL ANDamp; RESPIRATORY IRRITATION. INGESTION:  
POISONOUS, DEATH.

*Explanation Of Carcinogenicity:* NONE

*Signs And Symptions Of Overexposure:* IRRITATION, LOWER BLOOD  
PRESSURE, VASODILATOR, SPASMS.

*First Aid:* EYES: FLUSH W/RUNNING WATER FOR 15 MINS. SKIN: WASH THOROUGHLY W/SOAP ANDamp; WATER. INHALATION: REMOVE TO FRESH AIR. GIVE CPR IF NEEDED. INGESTION: TREAT W/GASTRIC WASH. OBTAIN MEDICAL ATTENTION IN ALL CAS ES.

### **Handling and Disposal**

*Spill Release Procedures:* USE PROTECTIVE EQUIPMENT DURING CLEAN-UP. ISOLATE AREA. REMOVE IGNITION SOURCES. CAREFULLY COLLECT MATERIAL ANDamp; PLACE IN A CONDUCTIVE BAG. CONTAMINATION OF MATERIAL W/SAND, GRIT, DIRT WILL RENDER MATERI AL SENSITIVE TO DETONATION. (SEE SUPP)

*Waste Disposal Methods:* EPA HAZARDOUS NUMBER: D003. DISPOSE OF IAW/FEDERAL, STATE ANDamp; LOCAL REGULATIONS. ENSURE THAT DETONATING CORD CONTAINS NO KNOTS/KINKS. KNOTS/KINKS IN CORD CAN CAUSE A DETONATION WHEN SUBJECT TO HEAT/FLAM E. DESTRUCTION: USE ONLY QUALIFIED PERSONNEL.

*Handling And Storage Precautions:* STORE AWAY FROM SPARKS/OTHER IGNITION SOURCES. AVOID HEAT, SHOCK ANDamp; IMPACT.

### **Fire and Explosion Hazard Information**

*Fire Fighting Procedures:* APPLY WATER THROUGH A FIXED EXTINGUISHING SYSTEM (SPRINKLERS), PEOPLE NEED NOT BE PRESENT FOR SYSTEM TO OPERATE. DON'T FIGHT FIRES INVOLVING EXPLOSIVES.

*Unusual Fire/Explosion Hazard:* MAY DETONATE IF EXPOSED TO SHOCK, HEAT, IMPACT, SPARKS/FRICTION. AUTOIGNITION TEMP: 374F (PENTAERYTHRITOL TETRANITRATE).

### **Control Measures**

*Respiratory Protection:* WEAR OSHA/NIOSH APPROVED DUST, MIST ANDamp; FUME FILTER RESPIRATOR.

*Ventilation:* REQUIRED IF USED IN UNDERGROUND MINES/SPECIAL TESTING IS TO BE PERFORMED INDOOR.

*Protective Gloves:* RUBBER/NEOPRENE

*Eye Protection:* SAFETY GLASSES

*Supplemental Safety and Health:* APPEARANCE CONT'D: CORE WILL CONTAIN 4 TO 400 GR/FT OF LISTED EXPLOSIVES. BRIGHTLY COLORED ROPE LIKE LINEAR PRODUCT W/JACKET OF BRAIDED PLASTIC YARN. SPILLS CONT'D: SEPARATE MATERIAL THAT ISN'T CONTAMINATED FROM CONTAMINATED MATERIAL. WET DOWN AND amp; CLEAN (LOOSE POWDER), USING A DAMP RAG/SPONGE. STORE IN SECURE AREA.

**Physical/Chemical Properties**

Solubility in Water: INSOLUBLE

Appearance and Odor: THE CORE OF HIGH EXPLOSIVE IS WRAPPED IN PLASTIC YARN.(SEE SUPP)

**Reactivity Data**

Stability Indicator: YES

Stability Condition To Avoid: HEAT, SHOCK, FRICTION, IMPACT, STATIC CHARGE, SPARKS AND OTHER IGNITION SOURCES.

Materials To Avoid: ACIDS, ALKALIS

Hazardous Decomposition Products: DETONATION AND BURNING: NITROGEN OXIDES.

Hazardous Polymerization Indicator: NO

**Toxicological Information****Ecological Information****MSDS Transport Information****Regulatory Information****Other Information****HAZCOM Label**

Product ID: A305-A993 AM382-AM990 PRIMACORD,DETONATING CORD,PRIMALINE

Cage: 96336

Company Name: ENSIGN-BICKFORD CO

Street: 660 HOPMEADOW STREET

PO Box: 483

City: SIMSBURY CT

Zipcode: 06070-0483

Health Emergency Phone: 203-651-2626

Label Required IND: Y

Date Of Label Review: 12/16/1998

Status Code: C

Label Date: 12/16/1998

Origination Code: G

Hazard And Precautions: EYES: IRRITATION. INHALATION: CARDIOVASCULAR COLLAPSE, NASAL ANDamp; RESPIRATORY IRRITATION. INGESTION: POISONOUS, DEATH. IRRITATION, LOWER BLOOD PRESSURE, VASODILATOR, SPASMS.

**Disclaimer**

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