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Product ID:HMX;OCTOGEN;SUPERFINE BETA HMX MSDS Date:03/21/1991 FSC:1376 NIIN:00-560-2206 **MSDS Number: BNQBJ** === Responsible Party === Company Name: ENSIGN-BICKFORD COMPANY Address:660 HOPMEADOW STREET City:SIMSBURY State:CT ZIP:06070 Country:US Info Phone Num:203-658-4411 OR 203-843-227 6 Emergency Phone Num:203-658-4411 OR 203-843-2276 Preparer's Name: TA SHREVE CAGE:96336 === Contractor Identification === Company Name: ENSIGN-BICKFORD CO Address:660 HOPMEADOW STREET Box:483 City:SIMSBURY State:CT ZIP:06070-0483 Country:US Phone:1-801-798-8613 CAGE:96336

Ingred Name:CYCLOTETRAMETHYLENETETRANITRAMINE CAS:2691-41-0 RTECS #:XF7450000 Fraction by Wt: 100% Other REC Limits:NOT KNOWN OSHA PEL:NOT KNOWN ACGIH TLV:NO LD50 LC50 Mixture:LD50 MOUSE ORAL 1500 MG/KG. Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:PROLONGED OR REPEATED EXPOSURE MAY CAUSE ECZEMA.EXCESSIVE INHALATION MAY RESULT IN CARDIOVASCULAR COLLAPSE.OVEREXPOSURE BY INGESTION WILL RESULT IN DEATH. Explanation of Carcinogenicity:NONE Effects of Overexposure:EYES:MAY C AUSE IRRITATION,POSSIBLE CORNEAL INJURY. SKIN:PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION. INGESTION:MAY CAUSE GASTROINTESTINAL IRRITATION. INHALATION:MAY CAUSE NASAL AND RESPIRATORY IRRITATION. Medical Cond Aggravated by Exposure:NOT KNOWN

- First Aid:EYES:FLUSH IMMEDIATELY W/ RUNNING WATER FOR AT LEAST 15 MINUTES.IF REDNESS OR IRRITATION OCCURS,GET MEDICAL ATTN. SKIN:WASH THOROUGHLY W/ SOAP & WATE
- R FOR AT LEAST 15 MINUTES.IF IRRITATION OCCURS,GET MEDICAL ATTN. INGESTION:INDUCE VOMITINGIMMEDIATELY BY STICKING FINGER DOWN VICTIM'S THROAT.GET IMMEDIATE MEDICAL ATTN. INHALATION:GET TO FRESH AIR.GIVE ARTIFICIAL RESPIRATION IF BREATHING STOPPED.

Flash Point:NOT KNOWN Autoignition Temp:Autoignition Temp Text:ADDATA Lower Limits:NOT KNOWN Upper Limits:NOT KNOWN Extinguishing Media:NONE Fire Fighting Procedures :DO NOT FIGHT FIRES INVOLVING HMX.HIGHLY EXPLOSIVE AND MAY DETONATE WHEN EXPOSED TO HEAT OR FLAMES.ISOLATE AREA AND EVACUATE ALL PERSONNEL TO DISTANT,SAFE AREA. Unusual Fire/Explosion Hazard:HIGHLY EXPLOSIVE.EXPOSURE TO SHOCK,HEAT,IMPACT,SPARKS,FRICTION MAY DETONATE.BURNS VIGOROUSLY IN FIRE.EXPLOSIVE TEMPERATURE:621F,327C.

Spill Release Procedures: ISOLATE AREA.ELIM ALL IGNIT SOURCES.EVAC ALL NON-ESSENTIAL P

ERS TO SAFE, DISTANT AREA. REMOVE ALL EXPLOSIVES NOT INVOLVED IN SPILL FROM AREA. CAREFULLY COLLECT SPILL, AVOIDING EXCESS FRICTION/IMPACT.PLACE IN PLASTIC BAG. CONTAM W/ DIRT, ETC (SEESUPP) Neutralizing Agent: NOT KNOWN

Handling and Storage Precautions: HANDLE AND STORE IAW ALL APPLICABLE REGULATIONS AND INDUSTRY PRACTICES PERTAINING TO CLASS A EXPLOSIVES.HMX SHOULD BE HANDLED WET WHENEVER POSSIBLE. Other Precautions :EXPOSURE TO SHOCK, HEAT, SPARKS, PRESSURE OR IMPACT MAY RESULT IN DETONATION. HANDLING ONLY BY INDIVIDUALS FAMILIAR WITH PROPER EXPLOSIVE HANDLING PROCEDURES.AVOID DUSTING BY KEEPING THE HMX WET WHEN POSS IBLE. Respiratory Protection: NIOSH APPROVED DUST RESPIRATOR SHOULD BE WORN WHEN HANDLING HMX. Ventilation: LOCAL EXHAUST RECOMMENDED TO MINIMIZE EMPLOYEE EXPOSURE. Protective Gloves:BUTYL RUBBER **Eve Protection:CHE** MICAL SAFETY GOGGLES. Other Protective Equipment: COTTON OR ANIT-STATIC COVERALLS WHICH WILL PROTECT AGAINST POWDER SPLASHES. Work Hygienic Practices: REPLACE COVERALLS WHEN CONTAMINATED. Supplemental Safety and Health BOILING POINT: HMX DEFLAGRATES AT 549F, 287C. SPILL PROC: RENDERS IT MORE SENSITIVE TO DETONATION.IF POSSIBLE, SEPARATE UNCONTAMINATED MATERIAL FROM CONTAMINATED MATERIAL.STORE COLLECTED MATERIAL FOR PROPE R DISPOSAL.

================== Physical/Chemical Properties ===

Boiling Pt:B.P. Text:SEE SUPP Melt/Freeze Pt:M.P/F.P Text:527F,275C Decomp Temp:Decomp Text:NOT KNOWN Spec Gravity:BETA 1.96,H*2=1 Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS,ODORLESS CRYSTALS. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES STRONG ACIDS,OXIDANTS AND ALKALIES.REACTS VIGOROUSLY WITH REDUCING AGENTS. Stability Condition to Avoid:EXPOSURE TO SHOCK,H EAT,SPARKS,PRESSURE OR IMPACT MAY RESULT IN DETONATION. Hazardous Decomposition Products:HAZARDOUS GASES (NITROGEN OXIDES) MAY BE RELEASED WHEN HMX BURNS OR DETONATES. Conditions to Avoid Polymerization:WILL NOT OCCUR

Waste Disposal Methods:DISP MUST BE IAW FED,STATE,& LOC REGS.COORDINATION W/ SUPPORTING INSTALLATION/MACOM ENVIRONMENTAL COORDINATION PRIOR TO DISP IS REC TO DETERM APPROPRIATE DISP METH .REC

METHOD OF DISPOSAL OF WAS TE EXPLOSIVES IS OPEN BURNING OR OPEN DETONATION.

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