

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-269/2691-41-0.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

2691-41-0

**Code:**

M

**RTECS:**

XF7450000

**Code:**

M

**Name:**

CYCLOTETRAMETHYLENE TETRANITRAMINE (HMX)

**Other REC Limits:**

N/K (FP A/ORN)

**OSHA PEL:**

N/K (FP A/ORN)

**Code:**

M

**OSHA STEL:****Code:****ACGIH TLV:**

N/K (FP A/ORN)

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

NONE

**Ventilation:**

CONSULT LOCAL SAFETY/HEALTH AUTHORITIES IF ADDITIONAL GUIDANCE IS NEEDED (FP A/ORN).

**Protective Gloves:**

NONE

**Eye Protection:**

5 SAFETY GLASSES

**Other Protective Equipment:**

Equipment NONE

**Work Hygienic Practices:**

N/K (FP A/ORN)

**Supplemental Safety and Health:**

WASTE DISP METH:CONSULT AN EXPLOSIVES MANUFACTURER FOR RECOMMENDED METHODS FOR DESTROYING EXPLOSIVE MATERIALS.

## Health Hazards Data

**LD50LC50Mixture:**

N/K (FP A/ORN)

**Route Of Entry Inds - Inhalation:**

N/P

**Skin:**

N/P

**Ingestion:**

N/P

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

SEE SIGNS AND SYMPTOMS OF OVEREXPOSURE.

**Explanation Of Carcinogenicity:**

NONE

**Signs And Symptoms Of Overexposure:**

EYES/SKIN/INGESTION/INHALATION:NOT A LIKELY ROUTE OF EXPOSURE.

**Medical Cond Aggravated By Exposure:**

N/K (FP A/ORN)

**First Aid:**

EYES/SKIN/INGESTION:N/A. INHALATION:IF DETONATION FUMES ARE INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH TO MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN.

**Spill Release Procedures:**

REVIEW FIRE AND EXPLOSION HAZARDS AND SAFETY PRECAUTIONS BEFORE PROCEEDING WITH CLEAN UP. USE APPROPRIATE PERSONAL PROTECTION EQUIPMENT DURING CLEAN UP.

**Neutralizing Agent:**

N/K (FP A/ORN)

**Waste Disposal Methods:**

DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. COORDINATION WITH SUPPORTING INSTALLATION AND/OR MACOM ENVIRONMENTAL COORDINATION PRIOR TO DISPOSAL IS RECOMMENDED TO DETERMINE APPROPRIATE DISPOSAL METHODS (FP A). (SEE SUPP)

**Handling And Storage Precautions:**

4 TRANSPORTATION AND STORAGE MUST BE IN ACCORDANCE WITH FEDERAL AND STATE REGULATIONS.

**Other Precautions:**

REFER TO MANUFACTURER'S INSTRUCTIONS AND WARNINGS SUPPLIED WITH PRODUCT. AVOID BREATHING FUMES OF DETONATION.

## Fire and Explosion Hazard Information

**Flash Point Method:**

N/P

**Flash Point:****Flash Point Text:**

N/A

**Autoignition Temp:****Autoignition Temp Text:**

N/A

**Lower Limits:**

N/K (FP A)

**Upper Limits:**

N/K (FP A)

**Extinguishing Media:**

NONE

**Fire Fighting Procedures:**

DO NOT FIGHT FIRE. ISOLATE AREA. EVACUATE PERSONNEL TO A SAFE PLACE.

**Unusual Fire/Explosion Hazard:**

MAY DETONATE IF OTHER OUTSIDE INFLUENCES ARE PRESENT. HAZARDOUS GASES PRODUCED IN A FIRE ARE NITROGEN OXIDES.

## Physical/Chemical Properties

**HCC:****NRC/State LIC No:****Net Prop WT For Ammo:****Boiling Point:****B.P. Text:**

N/A

**Melt / Freeze Pt:****M.P./F.P. Text:**

N/A

**Decomp Temp:****Decomp Text:**

N/K (FP A)

**Vapor Pres:**

N/A

**Vapor Density:**

N/A

**Volatile Org Content %:****Spec Gravity:**

N/A

**VOC Pounds/Gallon:****PH:**

N/K

**VOC Grams/Liter:****Viscosity:**

N/P

**Evaporation Rate & Reference:**

N/A

**Solubility in Water:**

N/A

**Appearance and Odor:**

HIGH EXPLO. CORE (15-400 GR/FT OF ANY ONE LISTED) TEXTILE PLASTIC WRAPPED.

**Percent Volatiles by Volume:**

N/A

**Corrosion Rate:**

N/K 6

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

DETONATING CORDS BECOME LESS STABLE WITH HEAT. UNSTABLE WITH SHOCK. AVOID HEAT.

**Materials To Avoid:**

INCOMPATIBLE WITH ACIDS, ALKALIES.

**Hazardous Decomposition Products:**

HAZARDOUS GASES PRODUCED ARE NITROGEN OXIDES.

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

HEAT, SHOCK.

## Toxicological Information

**Information:**

N/P

## MSDS/Transport Information

**Information:**

N/P

## Regulatory Information

**Sara Title III Information:**

N/P

**Federal Regulatory Information:**

N/P

**State Regulatory Information:**

N/P

## Other Information

**Other Information:**

N/P

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