

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-109/109-27-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
109-27-3

**Code:**  
M

**RTECS:**  
XF6900000

**Code:**  
M

**Name:**  
1-TETRAZENE, 1-GUANYL-4-NITROSAMINO GUANYL-; (TETR

**Other REC Limits:**  
N/K

**OSHA PEL:**  
NOT APPLICABLE

**Code:**  
M

**OSHA STEL:**  
ACGIH TLV: NOT APPLICABLE

**Code:**  
2 OSHA STEL:

**ACGIH TLV:**  
NOT APPLICABLE

**Code:**  
M

**ACGIH STEL:**  
N/P

**Code:**

## Control Measures

**Respiratory Protection:**  
6 PARTICULATE RESPIRATOR (E.G. 3M8710) WHERE AIR MOVEMENT IS INADEQUATE TO MAINTAIN EXPOSURE BELOW RECOMMENDED LEVELS. NIOSH/MSHA APPROVED (FP N).

**Ventilation:**  
GENERAL (NATURAL OR MECHANICALLY INDUCED FRESH AIR MOVEMENTS THAT MAINTAIN EXPOSURE LEVELS BELOW RECOMMENDED LIMITS).

**Protective Gloves:**  
IMPERVIOUS GLOVES (FP N).

**Eye Protection:**  
CHEMICAL WORKERS GOGGLES (FP N).

**Other Protective Equipment:**  
Equipment MUFFS OR AURAL INSERTS. SEE 29 CFR 1910.95.

**Work Hygienic Practices:**  
WASH EXPOSED SKIN THOROUGHLY AFTER USE. WASH HANDS BEFORE EATING.

**Supplemental Safety and Health:**  
FIRST AID PROC: THE WOUND AND TRANSPORT IMMEDIATELY TO A MEDICAL FACILITY. WASTE DISP METH: HAZARDOUS AMMUNITION. DISPOSAL MUST BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS (FP N).

## Health Hazards Data

**LD50LC50Mixture:**  
NONE SPECIFIED BY MANUFACTURER.

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
YES

**Ingestion:**  
NO

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
IRRITATION TO EYES, SKIN AND RESPIRATORY SYSTEM FROM FUMES AND GASES. ADVERSE HEALTH EFFECTS ARE NOT EXPECTED FROM LONG TERM EXPOSURE TO FUMES AND GASES; HOWEVER, GOOD PERSONAL HYGIENE PRACTICES ARE E SSENTIAL TO KEEP EXPOSURE TO A MINIMUM.

**Explanation Of Carcinogenicity:**  
NOT APPLICABLE (FP N).

**Signs And Symptions Of Overexposure:**  
NONE SPECIFIED BY MANUFACTURER.

**Medical Cond Aggravated By Exposure:**  
NONE ANTICIPATED.

**First Aid:**  
EYES: FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MIN. CONSULT MD IF SYMPS PERSIST. SKIN: WASH THORO W/SOAP & WATER IF IRRIT OCCURS. INHAL: MOVE TO FRESH AIR. GET MED ATTN IF SYMPS PERSIST. INGEST: GET IM MED MED ATTN. OTHER: SEEK PROMPT MED ATTN IF PHYSICAL INJURY OCCURS FROM PINS, RIVETS, SHRAPNEL, ETC. FOR BLEEDING WOUNDS, PLACE CLEAN MATL ON WOUND & APPLY FIRM HAND PRESSURE. ELEVATE (SEE SUPP DATA)

**Spill Release Procedures:**  
NONE SPECIFIED BY MANUFACTURER. 5

**Neutralizing Agent:**  
NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**  
MISFIRES, BENT CARTRIDGES, ETC SHOULD BE STORED IN A CNTNR OF WATER TO WHICH DETERGENT HAS BEEN ADDED AS A "WETTING" AGENT. THE ONLY PROPER DISP METH IS TO INCINERATE IN SMALL AMTS IN A BURNER SPECIFI CALLY DESIGNED FOR DESTROYING (SEE SUPPDATA)

**Handling And Storage Precautions:**  
STORE IN A COOL, DRY PLACE. DO NOT CRUSH OR DROP. KEEP AWAY FROM EXCESS HEAT, ELECTRICAL CURRENT, AND STRONG ACIDS OR OXIDIZERS.

**Other Precautions:**  
USE ONLY IN POWDER ACTUATED TOOLS DESIGNED TO HANDLE THESE BOOSTERS. EMPLOYEES MUST BE PROPERLY TRAINED AS PRESCRIBED IN 29CFR 1926.302(E).

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NOT APPLICABLE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/A

**Upper Limits:**  
N/A

**Extinguishing Media:**  
WATER

**Fire Fighting Procedures:**  
WEAR NIOSH/MSHA APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). FLOOD AREA WITH WATER OR KEEP CARTRIDGES COOL WITH WATER SPRAY.

**Unusual Fire/Explosion Hazard:**  
CARTRIDGES CAN EXPLODE WHEN EXPOSED TO TEMPERATURES ABOVE 200C.

## 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 N)

**Vapor Pres:**  
N/A

**Vapor Density:**  
N/A

**Volatile Org Content %:**

**Spec Gravity:**  
NOT APPLICABLE 7

**VOC Pounds/Gallon:**

**PH:** N/A

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
NOT APPLICABLE

**Solubility in Water:**  
NOT APPLICABLE

**Appearance and Odor:**  
BRASS CASING COLOR CODED ON STAR CRIMP

**Percent Volatiles by Volume:**  
N/K

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
EXCESS HEAT, CRUSHING, ELECTRICAL CURRENTS

**Materials To Avoid:**  
STRONG ACIDS AND OXIDIZING MATERIALS

**Hazardous Decomposition Products:**  
NO\*X, ACRID FUMES, AND LEAD.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT RELEVANT

## 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