

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-110/110-18-9.html> for suppliers of this product.

### Composition/Information on Ingredient

110-18-9

**Code:**  
T

**RTECS:**  
KV7175000

**Code:**  
T

**Name:**  
ETHYLENEDIAMINE, N,N,N',N'-TETRAMETHYL- ; (TEMED)

**Other REC Limits:**  
N/P

**OSHA PEL:**  
N/P

**Code:**

**OSHA STEL:**  
N/P

**Code:**

**ACGIH TLV:**  
N/P

**Code:**

**ACGIH STEL:**  
N/P

**Code:**

---

Control Measures

**Respiratory Protection:**  
WEAR APPROPRIATE NIOSH

**Ventilation:**  
USE ONLY IN A CHEMICAL FUME HOOD.

**Protective Gloves:**  
CHEMICAL-RESISTANT GLOVES.

**Eye Protection:**  
ANSI APPROVED CHEMICAL WORKERS GOGGLES FULL LENGTH FACESHIELD (FP N).

**Other Protective Equipment:**  
Equipment 4 EYE WASH DELUGE SHOWER MEETING ANSI DESIGN CRITERIA (FP N). WEAR OTHER SUITABLE PROTECTIVE CLOTHING.

**Work Hygienic Practices:**  
WASH THOROUGHLY AFTER HANDLING.

**Supplemental Safety and Health:**  
N/P

**LD50LC50Mixture:**  
SEE INGREDIENT & TOXICOLOGICAL IN

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
ACUTE: HARMFUL IF INHALED OR SWALLOWED. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN. INHALATION MAY RESULT IN SPASM, INFLAMMATION AND EDEMA OF THE LARYNX AND BRONCHI, CHEMICAL PNEUMONITIS AND PULMONARY EDEMA. PROLONGED CONTACT CAN CAUSE: SEVERE IRRITATION OR BURNS. EXPOSURE TO VAPOR, EVEN IN LOW CONCENTRATIONS, CAN CAUSE LACRIMATION, CONJUNCTIVITIS AND CORNEAL EDEMA WHEN VAPOR IS

**Explanation Of Carcinogenicity:**  
N/P

**Signs And Symptoms Of Overexposure:**  
HEALTH HAZ: LIGHTS. THIS EFFECT IS USUALLY REVERSIBLE ALTHOUGH IT MAY LAST A COUPLE OF DAYS. TARGET ORGAN DATA: BRAIN AND COVERINGS (OTHER DEGENERATIVE CHANGES); SPINAL CORD (OTHER DEGENERATIVE CHANGES) ; SENSE ORGANS AND SPECIAL SENSES (OTHER EYE EFFECTS); BEHAVIORAL (ATAXIA; IRRITABILITY). ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMATION.

**Medical Condition Aggravated By Exposure:**  
N/P

**First Aid:**  
EYES: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. ASSURE ADEQUATE FLUSHING BY SEPARATING EYELIDS WITH FINGERS. SKIN: IMMEDIATELY FLUSH WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING BEFORE REUSE. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.

**Spill Release Procedures:**  
EVACUATE AREA. SHUT OFF ALL SOURCES OF IGNITION. WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES. COVER WITH DRY-LIME, SAND OR SODA ASH. PLACE IN A COVERED CONTAINERS USING NON-SPARKING TOOLS AND TRANSPORT OUTDOORS. VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

**Neutralizing Agent:**  
DRY LIME, SAND, OR SODA ASH.

**Waste Disposal Methods:**  
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

**Handling And Storage Precautions:**  
DO NOT BREATHE VAPOR. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID PROLONGED OR REPEATED EXPOSURE. KEEP TIGHTLY CLOSED. KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME. STORE IN A COOL, DRY PLACE.

**Other Precautions:**  
3 HIGHLY FLAMMABLE (EU). CORROSIVE. CAUSES BURNS. KEEP AWAY FROM SOURCES OF IGNITION - NO SMOKING. IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW LABEL WHERE POSSIBLE).

## Flash Point Method:

N/P

**Flash Point:**  
=10.C, 50.F

**Flash Point Text:**

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/P

**Lower Limits:**  
0.98%

**Upper Limits:**  
9.08%

**Extinguishing Media:**  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM. WATER MAY BE EFFECTIVE FOR COOLING, BUT MAY NOT EFFECT EXTINGUISHMENT.

**Fire Fighting Procedures:**  
USE NIOSH APPROVED SCBA AND FULL PROTECTIVE EQUIPMENT (FP N). FLAMMABLE.

**Unusual Fire/Explosion Hazard:**  
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK. CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDITIONS. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. FORMS EXPLOSIVE MIXTURES IN A IR.

---

## Physical/Chemical Properties

**Net Prop WT For Ammo:**

**Boiling Point:**  
>120.C, 248.F

**B.P. Text:**  
120C To 122C

**Melt / Freeze Pt:**  
=-55.C, -67.F

**M.P/F.P Text:**

**Decomp Temp:**

**Decomp Text:**  
N/P

**Vapor Pres:**  
N/P

**Vapor Density:**  
N/P

**Volatile Org Content %:**

**Spec Gravity:**  
0.770

**VOC Pounds/Gallon:**

**PH:** N/P

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Ref:**  
N/P

**Solubility in Water:**  
N/P

**Appearance and Odor:**  
COLORLESS LIQUID.

**Percent Volatiles by Vol:**  
N/P

**Corrosion Rate:**  
N/P

---

**Reactivity Data**

### Stability Condition To Avoid

N/P

**Materials To Avoid:**  
ACIDS, ACID CHLORIDES, ACID ANHYDRIDES, STRONG OXIDIZING AGENTS, CARBON DIOXIDE, COPPER, COPPER ALLOYS.

**Hazardous Decomposition Products:**  
THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, AND NITROGEN OXIDES.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
WILL NOT OCCUR.

---

## Toxicological Information

---

**Information:**N/P

---

**Information:**N/P

# Regulatory Information

---

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

---

**Other Information:**N/P

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

**WARRANTY**

The above information is believed to be correct but does not purport to be all inclusive and shall be used