

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-323/3236-53-1.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

3236-53-1

**Code:**

M

**RTECS:****Code:**

X

**Name:**

1,6-HEXANEDIAMINE, 2,2,4-TRIMETHYL

**Other REC Limits:**

N/K

**OSHA PEL:**

N/K

**Code:**

M

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

N/K

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

USE SELF-CONTAINED BREATHING APPARATUS W/PRESSURE DEMAND MODE.

**Ventilation:**

ADEQUATE GENERAL & LOCAL EXHAUST TO MAINTAIN AIR CONCENTRATIONS IN WORK SPACE

**Protective Gloves:**

NEOPRENE RUBBER 4

**Eye Protection:**

SPLASH-PROOF GOGGLES OR FULL FACE-SHIELD

**Other Protective Equipment:**

Equipment PROTECTIVE LONG-SLEEVED CLOTHING, RUBBER APRON, RUBBER BOOTS, EYE WASH STATION, SAFETY SHOWER

**Work Hygienic Practices:**

REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. DISCARD CONTAMINATED LEATHER ARTICLES. SEE SUPP

**Supplemental Safety and Health:**

WASH AT THE END OF EACH WORKSHIFT & BEFORE EATING, SMOKING OR USING THE TOILET.

## Health Hazards Data

**LD50/LC50 Mixture:**

N/K

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

NO

**Ingestion:**

YES

**Carcinogenicity Inds - NTP:**

NO

**IARC:**

NO

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

EYES: LACRIMATION, CONJUNCTIVITIS, CORNEAL EDEMA, SEVERE IRRITATION, PAIN, BURNS, NECROSIS & PERMANENT INJURY. INHALATION: TISSUE DAMAGE & SCARRING, RESPIRATORY EFFECTS, COUGH, TIGHTNESS OF CHEST OR SHORTNESS OF BREATH. INGESTION: VOMITING, DIARRHEA, BLEEDING OF GASTROINTESTINAL TRACT & VOMITING OF BLOOD.

**Explanation Of Carcinogenicity:**

SEE INGREDIENTS

**Signs And Symptoms Of Overexposure:**

SKIN: DERMATITIS, DEFATTING, RASH, IRRITATION & CORROSION. EYES: CONJUNCTIVITIS & CORNEAL DAMAGE. INGESTION: DEATH.

**Medical Cond Aggravated By Exposure:**

CHRONIC RESPIRATORY DISEASE SUCH AS BRONCHITIS & EMPHYSEMA. EYE DISEASE, SKIN DISORDERS & ALLERGIES.

**First Aid:**

EYES: HOLD EYELIDS APART & FLUSH W/PLENTY OF WATER FOR AT LEAST 15 MINS. SKIN: WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. KEEP QUIET. START OXYGEN INHALATION THROUGH SUITABLE EQUIPMENT. PREVENT ASPIRATION OF VOMIT. TURN VICTIM'S HEAD TO THE SIDE. INGESTION: 3 ADMINISTER 3-4 GLASSES OF MILK OR WATER. DON'T INDUCE VOMITING. AVOID ASPIRATION OF VOMIT. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**

TRANSFER TO CONTAINERS BY SUCTION, PREPARATORY FOR LATER DISPOSAL. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. REMOVE FROM SPILL LOCATION. FLUSH AREA W/WATER SPRAY. OPEN ENCLOSED SPACES TO OUTSIDE ATMOSPHERE. WEAR PROTECTIVE EQUIPMENT.

**Neutralizing Agent:**

SODIUM BISULFITE

**Waste Disposal Methods:**

DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**

KEEP IN COOL, DRY, VENTILATED STORAGE & IN CLOSED CONTAINERS. KEEP AWAY FROM ACIDS OR ALKALIS. STORE AWAY FROM IGNITION SOURCES.

**Other Precautions:**

GROUND ALL CONTAINERS DURING TRANSFER. AVOID CONTACT W/SKIN & EYES. AVOID BREATHING VAPORS. EMPTY CONTAINERS MAY CONTAIN EXPLOSIVE VAPORS. FLUSH EMPTY CONTAINER W/WATER TO REMOVE RESIDUAL FLAMMABLE LIQUID & VAPORS.

## Fire and Explosion Hazard Information

**Flash Point Method:**

PMCC

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

261F

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

N/A

**Lower Limits:**

N/K

**Upper Limits:**

N/K

**Extinguishing Media:**

DRY CHEMICAL OR ALCOHOL FOAM

**Fire Fighting Procedures:**

WEAR NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS W/INDEPENDENT AIR SUPPLY. KEEP CONTAINER COOL W/WATER SPRAY. CONTAIN RUNOFF WATER IN DIKES.

**Unusual Fire/Explosion Hazard:**

USE WATER SPRAY TO REDUCE VAPORS. SUDDEN REACTION & FIRE MAY RESULT IF PRODUCT IS MIXED W/OXIDIZING AGENT.

## Physical/Chemical Properties

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

N/K

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

N/K

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

N/K

**Vapor Pres:****Vapor Pres:**

N/K

**Vapor Density:**

N/K

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

1.02

**VOC Pounds/Gallon:**

N/K

**PH:**

N/K

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

N/P

**Evaporation Rate & Reference:**

N/K

**Solubility in Water:**

N/K

**Colorless and Odor:**

Colorless mobile liquid w/ammoniacal odor

**Percent Volatiles by Volume:**

N/K

**Corrosion Rate:**

N/K

**Other Information:**

N/P

## Reactivity Data

**Stability Indicator:**

YES

**Stability Condition To Avoid:**

N/K

**Materials To Avoid:**

MINERAL ACIDS SUCH AS SULFURIC & PHOSPHORIC, OXIDIZING AGENTS SUCH AS PERCHLORATES & NITRATES

**Hazardous Decomposition Products:**

CO, CO<sub>2</sub>, NITROGEN OXIDES, TOXIC & IRRITATING GASES

**Hazardous Polymerization Indicator:**

NO

**Conditions To Avoid Polymerization:**

N/K

## 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:**

N/P

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