

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-57/57-44-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
57-44-3  
**Code:**  
M  
  
**RTECS:**  
CQ3500000  
**Code:**  
M  
  
**Name:**  
BARBITAL

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**  
  
**ACGIH TLV:**  
N/K  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
USE NIOSH APPROVED DUST RESPIRATOR.

**Ventilation:**  
LOCAL EXHAUST: HOOD SYSTEM (>100 CFM VELOCITY).

**Protective Gloves:**  
3 PROTECTIVE

**Eye Protection:**  
SPLASH-PROOF/DUST RESISTANT GOGGLES

**Other Protective Equipment:**  
Equipment FACESHIELD, EYE WASH FOUNTAIN, &SHOWER.

**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING &SHOES BEFORE REUSE.

**Supplemental Safety and Health:**  
MATERIALS TO AVOID CONT: CARBON DISULFIDE/PHOSGENE/CHROMYL CHLORIDE/CYANURIC ACID/DIBROMOMALONITRILE/DIMETHYL SULFATE/2,5-DINITRO-3-METHYLBENSOIC AICD/HEAVY METALS/LEAD/NITRIC ACID/SULFURIC ACID/TRIF LUOROACRYLOYL CHLORIDE/WATER/SODIUM/AZIDE. THE AZIDE ION INHIBITS CYTOCHROME OXIDASE & PHOSPHORYLATION.

## Health Hazards Data

**LD50LC50Mixture:**  
ORAL LD50 (RAT): 27 MG/KG

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
SKIN: IRRITATION/REDNESS/& BURNS. EYE: IRRITATION/CORNEAL BURNS/& RETINA/OPTIC NERVE INJURY. INHALATION: DIZZINESS/ANXIETY/CONFUSION/DROWSINESS/NAUSEA/VOMITING, RAPID/SLOW RESPIRATION/GASPING/CYANOSIS /HYPOTENSION/& COMA. INGESTION: BREATHLESSNESS/TACHYCARDIA/& HEAD POUNDING SENSATIONS.

**Explanation Of Carcinogenicity:**  
NONE

**Signs And Symptions Of Overexposure:**  
SKIN: DERMATITIS. EYE: CONJUNCTIVITIS. INHALATION: SWEATING/PULMONARY EDEMA/BRONCHITIS/COLLAPSE/UNCONSCIOUSNESS/RESPIRATORY FAILURE/WEAKNESS/THROAT/MUCOUS MEMBRANE IRRITATION/ANOREXIA/WEIGHT LOSS/VASO DILATION/& DEATH. INGESTION: TOXIC/HEADACHE/RESTLESSNESS/POLYDIPSIA/CARDIOMYOPHY/LEKOCYTOSIS/& DEATH.

**Medical Cond Aggravated By Exposure:**  
N/K 2

**First Aid:**  
EYES: FLUSH W/PLENTY OF WATER OR NORMAL SALINE FOR AT LEAST 15 MINS. SKIN: WASH W/SOAP OR MILD DETERGENT & PLENTY OF WATER. INHALATION: REMOVE TO FRESH AIR. GIVE CPR OR OXYGEN, IF NEEDED. KEEP WARM & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. INGESTION: IF CONSCIOUS, INDUCE VOMITING BY GASTRIC LAVAGE OR EMESIS USING ACTIVATED CHARCOAL. OBTAIN MEDICAL ATTENTION IN ALL CASES.

**Spill Release Procedures:**  
S LEAK SAFELY. SMALL SPILL: TAKE UP W/SAND OR OTHER ABSORBENT. PLACE INTO CONTAINERS FOR DISPOSAL. SMALL DRY SPILL: USE CLEAN SHOVEL TO PLACE MATERIAL INTO CLEAN, DRY CONTAINERS & COVER. MOVE CONTA INERS FROMAREA. VENTILATE CLOSED SPACES.

**Neutralizing Agent:**  
N/K

**Waste Disposal Methods:**  
DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
AVOID BREATHING POISONOUS VAPORS. DON'T TOUCH SPILLED MATERIAL OR WEAR CONTACT LENSES. AVOID CONTACT W/EYES & SKIN.

**Other Precautions:**  
POISON.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
COMBUSTIBLE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/A

**Lower Limits:**  
N/K

**Upper Limits:**  
N/K

**Extinguishing Media:**  
DRY CHEMICAL, CO2, HALON, WATER SPRAY, OR STANDARD FOAM.

**Fire Fighting Procedures:**  
KEEP UPWIND. EVACUATE TO A RADIUS OF 2500 FEET FOR UNCONTROLLABLE FIRES. USE WATER SPRAY TO REDUCE VAPORS.

**Unusual Fire/Explosion Hazard:**  
MAY BURN BUT DOES NOT IGNITE READILY. MAY EXPLODE FROM FRICTION, HEAT, OR CONTAMINATION.

## Physical/Chemical Properties

**HCC:**

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
N/K

**Melt /Freeze Pt:**

**M.P/F.P Text:**  
527F

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
N/R

**Vapor Density:**  
N/R

**Volatile Org Content %:**

**Spec Gravity:**  
1.8

**VOC Pounds/Gallon:**

**PH:** N/K

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**  
N/R

**Solubility in Water:**  
42%

**Appearance and Odor:**  
COLORLESS, CRYSTALLINE SOLID

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

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
NO

**Stability Condition To Avoid:**  
SHOCK &HEAT.

**Materials To Avoid:**  
ACIDS/AMMONIUM CHLORIDE/TRICHLOROACETONITRILE/BARIUM CARBONATE/BENOZOYL CHLORIDE/POTASSIUM HYDROXIDE/BROMINE. SEE SUPP.

**Hazardous Decomposition Products:**  
SODIUM &NITROGEN.

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/K 4

## 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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WARRANTY

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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