

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-102/102-60-3.html> for suppliers of this product.

## Composition/Information on Ingredient

102-60-3

**Code:**  
M

**RTECS:**  
UB5604000

**Code:**  
M

**Name:**  
2-PROPANOL,1,1',1",1"'-(ETHYLENEDINITRILO)TETRA

**Other REC Limits:**  
NONE RECOMMENDED

**OSHA PEL:**  
NOT ESTABLISHED

**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
NOT ESTABLISHED

**Code:**  
M

**ACGIH STEL:**  
N/P

**Respiratory Protection:**  
NIOSH-APPROVED RESPIRATOR

AND SCREENING PROGRAM MUST BE INITIATED.

**Ventilation:**  
MAINTAIN SUFFICIENT MECHANICAL VENTILATION TO KEEP VAPOR CONCENTRATION BELOW TLV. 6

**Protective Gloves:**  
ALKALI RESISTANT MATERIAL.

**Eye Protection:**  
FACE SHIELD OR GOGGLES.

**Other Protective Equipment:**  
Equipment BOOTS AND APRON MADE OF ALKALI RESISTANT MATERIALS.

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

**Supplemental Safety and Health:**  
NONE

**LD50LC50Mixture:**

UNKNOWN

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

**Skin:**  
YES

**Ingestion:**  
YES

**Carcinogenicity Inds - NTP:**  
NO

**IARC:**  
NO

**OSHA:**  
NO

**Health Hazards Acute And Chronic:**  
EYES- SEVERE BURNS; POSSIBLE PERMANENT TISSUE DAMAGE & POSSIBLE BLINDNESS. SKIN- SEVERE IRRITATION, POSSIBLE CHEMICAL BURNS & POSSIBLE PERMANENT DAMAGE. INHALATION- MAY CAUSE MODERATE TO SEVERE IRRITATION OF RESPIRATORY TRACT, POSSIBLE PERMANENT DAMAGE. INGESTION- SEVERE IRRITATION, DAMAGE TO GASTROINTESTINAL TRACT.

**Explanation Of Carcinogenicity:**  
NOT APPLICABLE

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

**Medical Cond Aggravated By Exposure:**  
NONE SPECIFIED BY MANUFACTURER.

**First Aid:**  
EYES- SPEED IS ESSENTIAL! IMMEDIATELY FLUSH THOROUGHLY WITH LARGE AMOUNTS OF WATER. FOLLOW WITH SALINE, 30 MIN. SKIN- IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER. INHALATION- REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF BREATHING HAS STOPPED. INGESTION- DO NOT INDUCE VOMITING; IF CONSCIOUS GIVE WATER FREELY AND GET MEDICAL ATTENTION.

**Spill Release Procedures:**  
CONFINED SPILL. LEAK AT SOURCE IF THIS CAN BE DONE SAFELY. VENTILATE AREA. NONESSENTIAL PERSONNEL SHOULD LEAVE THE AREA UNTIL CLEANUP IS COMPLETED. PUMP LIQUID INTO DOT-APPROVED DRUMS FOR DISPOSAL. ABSORB REMAINING LIQUID ONTO INERT ABSORBENT.

**Neutralizing Agent:**  
N/A

**Waste Disposal Methods:**  
5 (1) TRANSFER TO RECLAIMING CENTER FOR RECYCLING OR REUSE, IF POSSIBLE. (2) TRANSFER TO LICENSED WASTE TREATMENT OR DISPOSAL SITE FOR DISPOSITION UNDER APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**  
STORE IN DRY PROTECTED AREA. CAUTION: HAZARDOUS CARBON MONOXIDE GAS CAN FORM UPON CONTACT WITH FOOD AND BEVERAGE PRODUCTS.

**Other Precautions:**  
CAREFULLY ADD TO WATER WHILE MIXING, TAKING CARE TO AVOID SPLASHING. USE APPROPRIATE SAFETY EQUIPMENT TO ELIMINATE POSSIBILITY OF SKIN OR EYE CONTACT.

Flash Point Method:  
N/P

**Flash Point:**

**Flash Point Text:**  
NOT APPLICABLE

**Autoignition Temp:**

**Autoignition Temp Text:**  
N/R

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
ANY MEDIA SUITABLE FOR SURROUNDING MATERIAL.

**Fire Fighting Procedures:**  
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.

**Unusual Fire/Explosion Hazard:**  
CONTACT WITH WATER AND REACTIVE METALS, SUCH AS ALUMINUM, ZINC, TIN, ETC., MAY LEAD TO GENERATION OF HYDROGEN GAS IN EXPLOSIVE AMOUNTS.

## Physical/Chemical Properties

B1

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**  
=132.2C, 270.F

**B.P. Text:**

**Melt/Freeze Pt:**

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

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
25

**Vapor Density:**  
>1

**Volatile Org Content %:**

**Spec Gravity:**  
1.42

**VOC Pounds/Gallon:**

**PH:** 13.0

**VOC Grams/Liter:**

**Viscosity:**  
N/P

**Evaporation Rate & Reference:**

**Solubility in Water:**  
COMPLETE 7

**Appearance and Odor:**  
CLEAR, AMBER LIQUID; PHENOL ODOR.

**Percent Volatiles by Volume:**  
25

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
CONTACT WITH INCOMPATIBLE MATERIALS.

**Materials To Avoid:**  
STRONG ACIDS, REACTIVE METALS, ORGANIC MATERIALS.

**Hazardous Decomposition Products:**  
NONE

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
NOT APPLICABLE

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## Toxicological Information

**Information:** N/P

MSDS Tr

**Information:**N/P

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

**Federal Regulatory Information:** N/P

**State Regulatory Information:**

### Other Inform