

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-901/9017-01-0.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
9017-01-0  
**Code:**  
M  
**RTECS:**  
**Code:**  
X  
**Name:**  
TOLUENE DIISOCYANATE HOMOPOLYMER  
**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 AN APPROPRIATE, PROPERLY FITTED RESPIRATOR IF EXPOSURES EXCEED PEL/TLV VALUES. USE SELF CONTAINED BREATHING APPARATUS/AIR PURIFYING RESPIRATORY PROTECTION DEPENDING ON THE CONDITIONS OF USE. 3  
**Ventilation:**  
MECHANICAL EXHAUST TO DRAW VAPORS/MISTS/FUMES AWAY. VENTILATION MUST BE SUFFICIENT TO MAINTAIN AIRBORNE LEVELS  
**Protective Gloves:**  
CHEMICAL RESISTANT  
**Eye Protection:**  
SPLASH PROOF CHEMICAL GOGGLES/FACESHIELD  
**Other Protective Equipment:**  
Equipment CHEMICAL RESISTANT APRON/IMPERVIOUS CLOTHING, EYE WASH FACILITIES, SAFETY SHOWER  
**Work Hygienic Practices:**  
REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. WASH THOROUGHLY AFTER HANDLING &BEFORE EATING, DRINKING/SMOKING.  
**Supplemental Safety and Health:**  
SPILL CONT'D: EVACUATE AREA. EXTINGUISH IGNITION SOURCES. ACTIVATE EXPLOSION-PROOF EXHAUST VENTILATION. SHUT OFF SOURCE SAFELY. DIKE AREA. APPLY ABSORBENT TO SOAK UP RESIDUE. WASH AREA W/SOAPY WATER. COLLECT ABSORBED MATERIAL & WATER RINSES IN APPROPRIATE WASTE CONTAINERS. PREVENT RELEASES FROM ENTERING WATERWAYS.

## Health Hazards Data

**LD50LC50Mixture:**  
N/P  
**Route Of Entry Inds - Inhalation:**  
YES  
**Skin:**  
NO  
**Ingestion:**  
YES  
**Carcinogenicity Inds - NTP:**  
YES  
**IARC:**  
YES  
**OSHA:**  
NO  
**Health Hazards Acute And Chronic:**  
EYES: SEVERE REVERSIBLE IRRITANT. SKIN: IRRITANT, DERMATITIS, SENSITIZATION/ALLERGIC REACTIONS IN CERTAIN INDIVIDUALS. INHALATION: RESPIRATORY IRRITANT, ANESTHETIC/OTHER TEMPORARY CNS EFFECTS, RESPIRATORY SENSITIZATION IN SUSCEPTIBLE INDIVIDUALS. INGESTION: HARMFUL. (SEE SUPPLEMENTAL DATA)  
**Explanation Of Carcinogenicity:**  
SEE INGREDIENTS.  
**Signs And Symptions Of Overexposure:**  
IRRITATION, RASH, ITCHING, HIVES, REDDENING, SWELLING OF THE EXTREMITIES, HEADACHES, NAUSEA, DIZZINESS. TIGHTNESS OF CHEST, ASTHMA, RESPIRATORY DISTRESS.  
**Medical Cond Aggravated By Exposure:**  
2 ASTHMA-TYPE CONDITIONS, CHRONIC BRONCHITIS, OTHER CHRONIC RESPIRATORY DISEASES, RECURRENT SKIN ECZEMA, SENSITIZATION & ISOCYANATES SENSITIVITY  
**First Aid:**  
EYES: FLUSH THOROUGHLY W/WATER FOR 15 MINS. SKIN: FLUSH W/PLENTY OF WATER, THEN WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. GIVE OXYGEN/CPR IF NECESSARY. INGESTION: DON'T INDUCE VOMITING. IF CONSCIOUS & ALERT, DILUTE BY GIVING WATER TO DRINK. NEVER GIVE ANYTHING BY MOUTH IF DROWSY, UNCONSCIOUS/CONVULSIVE. OBTAIN MEDICAL ATTENTION IN ALL CASES.  
**Spill Release Procedures:**  
SMALL: ACTIVATE ALL EXPLOSION PROOF EXHAUST VENTILATION. EXTINGUISH IGNITION SOURCES. WIPE UP/ABSORB W/VERMICULITE. WASH AREA W/SOAPY WATER. COLLECT ABSORBED MATERIAL & WATER RINSES IN CHEMICAL WASTE CONTAINERS. (SEE SUPP)  
**Neutralizing Agent:**  
N/K  
**Waste Disposal Methods:**  
DISPOSE OF AS IGNITABLE WASTE IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.  
**Handling And Storage Precautions:**  
STORE IN TIGHTLY SEALED CONTAINERS AT ROOM TEMP. & AWAY FROM IGNITION SOURCES. KEEP BLANKETED IN NITROGEN TO RETARD POLYMERIZATION.  
**Other Precautions:**  
PROVIDE PROPER VENTILATION. PREVENT SKIN CONTACT & CONTAMINATION OF CLOTHING. PERSONS SHOULD BE PROPERLY TRAINED IN SAFE HANDLING OF THIS PRODUCT PRIOR TO USE.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P  
**Flash Point:**  
**Flash Point Text:**  
65F  
**Autoignition Temp:**  
**Autoignition Temp Text:**  
N/A  
**Lower Limits:**  
1.3  
**Upper Limits:**  
7.6  
**Extinguishing Media:**  
CO2, DRY CHEMICAL, FOAM, WATER FOG.  
**Fire Fighting Procedures:**  
AVOID DIRECT WATER STREAMS TO CONTROL FIRE; FROTHING MAY OCCUR. WEAR POSITIVE PRESSURE SCBA & PROTECTIVE EQUIPMENT. COOL EXPOSED CONTAINERS W/WATER.  
**Unusual Fire/Explosion Hazard:**  
CLOSED CONTAINERS MAY VIOLENTLY RUPTURE UNDER FIRE CONDITIONS.

## Physical/Chemical Properties

**HCC:**  
**NRC/State LIC No:**  
**Net Prop WT For Ammo:**  
**Boiling Point:**  
**B.P. Text:**  
260F  
**Melt/Freeze Pt:**  
**M.P/F.P Text:**  
N/K  
**Decomp Temp:**  
**Decomp Text:**  
N/K  
**Vapor Pres:**  
10  
**Vapor Density:**  
>1  
**Volatile Org Content %:**  
**Spec Gravity:**  
1.09  
**VOC Pounds/Gallon:**  
**PH:** N/K  
**VOC Grams/Liter:**  
**Viscosity:**  
N/P  
**Evaporation Rate & Reference:**  
N/K  
**Solubility in Water:**  
INSOLUBLE  
**Appearance and Odor:**  
CLEAR YELLOW LIQUID W/SOLVENT ODOR  
**Percent Volatiles by Volume:**  
<6/WT  
**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES  
**Stability Condition To Avoid:**  
OPEN FLAME/HEAT & OTHER IGNITION SOURCES, MOISTURE  
**Materials To Avoid:**  
STRONG OXIDIZERS, ACIDS, BASES, UNCONTROLLED MIXING W/CURING AGENTS.  
**Hazardous Decomposition Products:**  
CO2, CO, ALDEHYDES, ORGANIC ACIDS, ISOCYANATES, TRACES OF CYANIDES & OTHER ORGANIC SUBSTANCES.  
**Hazardous Polymerization Indicator:**  
YES 4  
**Conditions To Avoid Polymerization:**  
UNCONTROLLED MIXING W/AMINES, WATER, POLYOLS/ALCOHOLS. STORAGE IN OPEN CONTAINERS, WHICH MAY LEAD TO MOISTURE ABSORPTION

## 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