

# MATERIAL SAFETY DATA SHEET

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

Click <http://www.lookchem.com/cas-91/91-08-7.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**

91-08-7

**Code:**

M

**RTECS:**

CZ6310000

**Code:**

M

**Name:**

TOLUENE-2,6-DIISOCYANATE (SARA 302/313) (CERCLA)

**Other REC Limits:**

NONE RECOMMENDED

**OSHA PEL:**

NOT ESTABLISHED

**Code:**

M

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

NOT ESTABLISHED

**Code:**

M

**ACGIH STEL:**

N/P

**Code:**

## Control Measures

**Respiratory Protection:**

NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE OR AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

**Ventilation:**

USE LOCAL EXHAUST NEAR THE SOURCE TO MAINTAIN EXPOSURE BELOW TLV(S).

**Protective Gloves:**

PVC, RUBBER, LATEX, NITRILE, BUTYL.

**Eye Protection:**

SAFETY GLASSES W/SIDE SHIELDS; GOGGLES.

**Other Protective Equipment:**

Equipment EYE WASH STATION & SAFETY SHOWER WITHIN REASONABLE DISTANCE FROM THE WORK AREA. 4

**Work Hygienic Practices:**

WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

**Supplemental Safety and Health:**

N/P

## Health Hazards Data

**LD50/LC50 Mixture:**

NONE SPECIFIED BY MANUFACTURER.

**Route Of Entry Inds - Inhalation:**

YES

**Skin:**

YES

**Ingestion:**

NO

**Carcinogenicity Inds - NTP:**

YES

**IARC:**

YES

**OSHA:**

NO

**Health Hazards Acute And Chronic:**

ACUTE: CONTACT WITH EYES MAY CAUSE IRRITATION. PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION. INGESTION MAY BE HARMFUL, MODERATELY TOXIC. INHALATION MAY BE HARMFUL; MAY CAUSE ALLERGIC REACTION. CHRONIC: NONE SPECIFIED BY MANUFACTURER.

**Explanation Of Carcinogenicity:**

BENZENE, 2,4-DIISOCYANATE-1-METHANE & BENZENE, 1,3-DIISOCYANATE-2-METHANE ARE LISTED AS ANTICIPATED (IARC 2B) CARCINOGEN

**Signs And Symptoms Of Overexposure:**

INHALED-ALLERGIC REACTION SIMILAR TO ASTHMA. INGESTION-VOMITING. EYES-IRRITATION. SKIN-IRRITATION.

**Medical Cond Aggravated By Exposure:**

PRE-EXISTING SKIN & EYE DISORDERS. PRE-EXISTING SKIN AND LUNG DISORDERS MAY INCREASE CHANCE OF ALLERGIC REACTION.

**First Aid:**

IN ALL CASES GET MEDICAL ATTENTION. EYES-IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH OFF WITH FLOWING WATER. INHALED-REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR A RTIFICIAL RESPIRATION AS NEEDED. INGESTED-DO NOT INDUCE VOMITING! NOTE TO PHYSICIAN: TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITIONS.

**Spill Release Procedures:**

ELIMINATE ALL SOURCES OF IGNITION. CONTAIN SPILL, ABSORB W/SAND/DIRT. PREVENT RUN-OFF TO STORM SEWERS, DITCHES, WATERWAYS. SHOVEL/SCRAPE (NONMETALLIC) ABSORBED WASTE MATERIAL INTO DISPOSAL CONTAINER. SEAL LID W/TAPE OR LOCKING RING & LABEL PROPERLY. 3

**Neutralizing Agent:**

NONE SPECIFIED BY MANUFACTURER.

**Waste Disposal Methods:**

REUSE OR REINTRODUCE INTO PROCESS; RECLAIM/REGENERATE/RECYCLE; BURN FOR ENERGY RECOVERY OR INCINERATE. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

**Handling And Storage Precautions:**

STORE IN A COOL, DRY PLACE BELOW 25C (77F) AND AWAY FROM SOURCES OF IGNITION. KEEP CONTAINERS CLOSED AND TIGHTLY SEALED.

**Other Precautions:**

PLASTIC CONTAINERS MAY BE SLIPPERY WHEN HANDLED. DO NOT EXPOSE TO DIRECT SUNLIGHT. ONCE CONTAINER IS OPENED, USE NITROGEN BLANKET ON MATERIAL AND RESEAL.

## Fire and Explosion Hazard Information

**Flash Point Method:**

CC

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

89.0F, 31.7C

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

N/K

**Lower Limits:**

UNKNOWN

**Upper Limits:**

UNKNOWN

**Extinguishing Media:**

WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

**Fire Fighting Procedures:**

WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE FIGHTER'S PROTECTIVE GEAR.

**Unusual Fire/Explosion Hazard:**

NO UNUSUAL FIRE OR EXPLOSION HAZARDS.

## Physical/Chemical Properties

**HCC:**

F3

**NPC/State LIC No:**

N/R

**Net Prop WT For Ammo:**

N/K

**Boiling Point:****B.P. Text:**

UNKNOWN

**Melt/Freeze Pt:****Melt/Freeze Pt Text:**

UNKNOWN

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

UNKNOWN

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

UNKNOWN

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

UNKNOWN

**Vapor Pres:**

9.5

**Vapor Density:**

3.7

**Volatile Org Content %:****Volatile Org Content % Text:**

UNKNOWN

**Spec Gravity:**

1.0

**VOC Pounds/Gallon:**

UNKNOWN

**PH:**

N/K

**VOC Grams/Liter:**

550

**Viscosity:**

MEDIUM

**Evaporation Rate & Reference:**

0.5 (METHOD NOT GIVEN)

**Solubility in Water:**

APPRECIABLE

**Appearance and Odor:**

LIQUID, MEDIUM VISCOSITY, AMBER COLOR, AROMATIC ODOR.

**Percent Volatiles by Volume:**

53

**Corrosion Rate:**

UNKNOWN

**Exothermic:**

YES

**Conditions To Avoid Polymerization:**

EXOTHERMIC

## 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:**