

**Section 4 - First Aid Measures**

**Inhalation:** Remove source(s) of contamination and move victim to fresh air.  
**Eye Contact:** Flush eyes with plenty of water. If irritation persists, seek medical attention.  
**Skin Contact:** In case of skin contact, wash thoroughly with soap and water; remove contaminated clothing and launder before reuse. Contact physician immediately.  
**Ingestion:** Do not induce vomiting unless instructed by a physician.

*After first aid, get appropriate in-plant, paramedic, or community medical support.*

**Section 5 - Fire-Fighting Measures**

**Flash Point:** >270 °F (132°C)  
**Flash Point Method:** PMCC

**Flammability Classification:** Non-Flammable

**Extinguishing Media:** Water Fog, Dry Chemical, and Carbon Dioxide Foam

**Unusual Fire or Explosion Hazards:** None

**Fire-Fighting Instructions:** Fire fighters should wear self-contained breathing apparatus. Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.



**Section 6 - Accidental Release Measures**

**Spill /Leak Procedures:** Dike and contain spill; absorb or scrape up excess into suitable container for disposal. Stop or reduce discharge if it can be done safely.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120).

**Section 7 - Handling and Storage**

**Handling Precautions:** Minimize breathing of vapors and avoid prolonged or repeated contact with skin. Wear proper protective equipment. If ventilation is not sufficient, wear proper respiratory equipment. Use good general housekeeping procedures.

**Storage Requirements:** Store in cool, dry, well-ventilated area.

**Section 8 - Exposure Controls / Personal Protection**

**Respiratory Protection:** Follow OSHA respirator regulations 29 CFR 1910.134 and European Standard EN 149; wear an MSHA/NIOSH or European Standard EN149 approved respirator.

**Warning!** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, boots, and aprons to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations 29 CFR 1910.133 and European Standard EN166. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.



**Section 9 - Physical and Chemical Properties**

**Physical State:** Liquid  
**Appearance:** Clear yellow viscous liquid  
**Boiling Point:** None (Polymeric Resin)  
**Odor:** Sharp pungent odor  
**% Volatile:** Nil  
**Freezing/Melting Point:** None (Polymeric Resin)  
**Vapor Pressure:** None (Polymeric Resin)  
**Vapor Density (Air=1):** >1  
**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** 1.04  
**Viscosity:** 50 poise

**Section 10 - Stability and Reactivity**

**Stability:** These products are stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization can occur.

**Chemical Incompatibilities:** Strong bases, water, amines, alcohols

**Conditions to Avoid:** Avoid contamination with water and other materials that react with isocyanates.

**Hazardous Decomposition Products:** TDI vapors, hydrocyanic gas, oxides of nitrogen, carbon monoxide and carbon dioxide

**Section 11 - Toxicological Information**

|                            |                 |                                       |
|----------------------------|-----------------|---------------------------------------|
| Hazardous Component        | LD50 Oral       | LC50 Inhalation                       |
| Toluene Diisocyanate (TDI) | Rat: 5800 mg/kg | Rat: 140ppm/4hr.<br>Mouse: 10ppm/4hr. |

**Section 12 - Ecological Information**

None Established

**Section 13 - Disposal Considerations**

**Disposal:** These materials must be disposed of in accordance with local regulations.

**Section 14 - Transport Information**

|               |               |               |
|---------------|---------------|---------------|
| DOT           | IATA          | IMDG          |
| Not Regulated | Not Regulated | Not Regulated |

**Section 15 - Regulatory Information**

**United States EPA Regulations:**

CERCLA Hazardous Substance (40 CFR 302.4) listed specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307(a), CAA, Sec. 112

|                      |          |                        |
|----------------------|----------|------------------------|
| Chemical Name        | RC       | % Reportable Component |
| Toluene Diisocyanate | 100 lbs. | <1.0                   |

**SARA EHS (Extremely Hazardous Substance) (40 CFR 355):**

|                      |            |             |
|----------------------|------------|-------------|
| Chemical Name        | CAS #      | % by Weight |
| Toluene Diisocyanate | 26471-62-5 | <1.0        |