

SECTION 4 - FIRST AID

EYE CONTACT

Immediately flush eyes with water for at least 15 minutes. Call a physician.

SKIN CONTACT

Wash affected area with soap and water.
Remove contaminated clothing and shoes. Wash before reuse.
Call a physician.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Call a physician.

INGESTION

If swallowed, call a physician immediately. Induce vomiting or remove stomach contents by gastric suction only as directed by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 5 - FIRE AND EXPLOSION DATA

CHARACTERISTICS:

Flash Point	320+F
Upper Explosion Limit (UEL)	Not applicable
Lower Explosion Limit (LEL)	Not applicable
Autoignition Temperature	Not applicable
Flash Point Method(s)	Closed cup
Fire Hazard Classification (OSHA/NFPA)	Combustible Solid

EXTINGUISHING MEDIA

Ignition will give rise to a Class B fire.
In case of fire use, Carbon Dioxide (CO₂), Dry Chemical, Alcohol Foam.

SPECIAL FIRE FIGHTING PROCEDURES

Use flooding amounts of water in early stages of fire. If water pollution occurs, notify appropriate authorities. Wear NIOSH approved self-contained breathing apparatus with independent air supply. Contain runoff water in dikes. Prevent stream contamination. Keep containers cool with water spray. Avoid skin contact.

UNUSUAL FIRE AND EXPLOSION HAZARDS

May generate toxic or irritating combustion products. May generate carbon monoxide gas. May generate toxic nitrogen oxide gases.

SECTION 6 - REACTIVITY HAZARD DATA

CHEMICAL STABILITY

Stable

CONDITIONS TO AVOID (if unstable)

Product reacts slowly with water which results in the liberation of carbon dioxide. Reaction with water or contaminants or excessive heat may result in sufficient pressure to burst container.

INCOMPATIBILITY (Materials to Avoid)

Water, steam, Amines, Alcohols, Mineral acids (i.e. sulfuric, phosphoric, etc.), Organic acids (i.e. acetic acid, citric acid etc.), Oxidizing Agents (i.e. perchlorates, nitrates etc.).

HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials)

Carbon Monoxide in a fire, Carbon Dioxide in a fire, Nitrogen Oxides in a fire, Irritating and toxic fumes at elevated temperatures.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID (if may occur)

None known.

NFPA Reactivity Rating 1

SECTION 7 - SPILL, LEAK AND WASTE DISPOSAL INFORMATION

CONTAINMENT TECHNIQUES (Removal of ignition sources, diking etc)

Stop the leak, if possible. Ventilate the space involved. Construct a dike to prevent spreading.

CLEAN-UP PROCEDURES

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent and place in a container or dumpster pending disposal.

Prepare a decontamination solution of 0.2-5% liquid detergent and 3-8% concentrated ammonium hydroxide in water. Treat spill area with decontamination solution, using about 10 parts of the solution for each part of the spill and allow it to react for at least 10 minutes for trace amounts and 48 hours for large spills. Neutralize the waste. Carbon dioxide will evolve, leaving insoluble polyureas.

OTHER EMERGENCY ADVICE

Avoid skin contact. Wear protective clothing. Open enclosed spaces to outside atmosphere. Prevent spilled product from entering streams or drinking water supplies.

WASTE DISPOSAL:

As manufactured, product is not a hazardous waste under USEPA regulation (40 CFR Part 261). Comply with all Federal, State and Local Regulations.

Stir the isocyanate waste into the decontamination solution as above. Neither the liquid nor the solid is a hazardous waste. Fill waste drum with above solution and let sit unsealed for 48 hours. Rinse container three times and puncture or otherwise destroy before disposal.

ENVIRONMENTAL EFFECTS

No Data

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

EYE PROTECTION:

Splash-proof eye goggles. In emergency situations, use eye goggles with a full face shield.

HAND PROTECTION:

Impermeable gloves. In emergency situations, wear impermeable gloves with cuffs to prevent spread of material to area above the wrists.

RESPIRATORY PROTECTION

Not required under normal conditions. For emergency situations use self-contained breathing apparatus with pressure demand mode.

PROTECTIVE CLOTHING

Impervious clothing. Long sleeved clothing. Rubber apron. Rubber boots.

ENGINEERING CONTROLS

In case of insufficient ventilation, wear suitable respiratory equipment.

Adequate general and local exhaust. Maintain air concentrations in work spaces in accord with standards outlined in Sections 2 and 3.

WORK AND HYGIENIC PRACTICES

Provide readily accessible eyewash stations. Safety shower. Wash at the end of each workshift and before eating, smoking or using the toilet. Change work clothing daily before leaving the work place. Promptly remove clothing that becomes contaminated. Wash promptly if skin becomes contaminated. Discard contaminated leather articles.

SECTION 9 - STORAGE AND HANDLING

STORAGE

Keep in cool, dry, ventilated storage and in closed containers. Keep away from oxidizers, heat or flames.

HANDLING

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well ventilated work space.

To prepare for unloading, the drum with bung vent inserted should be placed in a warm room, drum warmer or meltdown oven for period of time sufficient to melt the desired amount of prepolymer. Liquid

OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)
Carcinogen, Irritant

EPA SARA Title III Section 312 (40CFR370) hazard class
Immediate Health Hazard, Delayed Health Hazard

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimis" level are

584-84-9 2,4-TOLUENEDIISOCYANATE at no more than 0.2%
91-08-7 2,6 TOLUENEDIISOCYANATE at no more than 0.4%

SECTION 13 - STATE REGULATIONS

Proposition 65 substance(s) listed by the state of California under the
"Safe Drinking Water and Toxic Enforcement Act of 1986"

584-84-9 2,4-TOLUENEDIISOCYANATE
91-08-7 2,6 TOLUENEDIISOCYANATE

New Jersey Trade Secret Registry Number(s)
None

SECTION 14 - INTERNATIONAL REGULATIONS

CANADA

REGULATORY

DSL Included on Inventory
WHMIS Hazard Classification Class D Division 2A, Class D Division
2B

WHMIS Trade Secret Registry Number(s) None
WHMIS HAZARDOUS INGREDIENTS Included in Section 2

LABELING

WHMIS Symbol Stylized T, Skull and Crossbones

EUROPEAN ECONOMIC COMMUNITY (EEC)

REGULATORY

EINICS Master Inventory Included on Inventory

LABELING

EEC SYMBOL Irritant, Harmful
EEC Council Directives relating to the classification, packaging
and labeling of dangerous substances and preparations Risk (R) and
Safety (S) phrases

Irritating to eyes, respiratory system and skin. Harmful by
inhalation. May cause sensitization by inhalation.
Avoid contact with skin and eyes. In case of contact with eyes,
rinse immediately with plenty of water and seek medical advice.
Wear suitable protective clothing, gloves and eye/face
protection.