



MATERIAL SAFETY DATA SHEET

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ALL CHEMICAL EMERGENCIES

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Page 1

SECTION I - PRODUCT IDENTIFICATION

Product Code: URESTONE PART A
Trade Name: **URESTONE**
Product Class: Polymeric Isocyanate
C.A.S. Number: Mixture
HMIS Rating: Health = 3 Fire = 1 Reactivity = 1

SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Max. Content</u>	<u>Exposure Limits</u>
Nepheline Syenite	37244-96-5	30 - 70%	None Established
Polymethylene polyphenylene ester	101-68-8/9016-87-9	30 - 70%	

SECTION III - PHYSICAL DATA

pH:	No Data	Volatile % by volume:	No Data
Specific Gravity:	1.7	Vapor Density:	8.6
Evaporation Rate:	No Data	Boiling Point:	Decomposes
Appearance & Odor:	Dark brown, viscous liquid w/slight odor		
Solubility in water:	Reacts		
Decomposition Temperature:	646°F, 341.1°C		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: Non-Flammable Flash Point: 425°F, 218°C (COC)
Auto Ignition Temp: No Data

- EXTINGUISHING MEDIA: Carbon dioxide & dry chemicals. If water is used, use very large quantities. The reaction between water & hot isocyanate may be vigorous.
- SPECIAL FIRE FIGHTING PROCEDURE: Self contained breathing apparatus with full face piece & protective clothing.
- UNUSUAL FIRE & EXPLOSION HAZARDS: Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture them.

SECTION V - HEALTH HAZARD DATA

-ROUTES OF ABSORPTION: Inhalation, oral ingestion.

- EFFECTS OF OVEREXPOSURE:

SKIN: Acute: No significant adverse effects to health will occur from dermal contact. Chronic: Skin sensitization and/or irritation may develop after repeated or prolonged contact with skin.

EYES: Vapor and liquid are irritating to the eyes.

INHALATION: Vapors and aerosols can irritate nose and respiratory passages. Respiratory sensitization with asthma-like symptoms may occur.

INGESTION: Acute: Ingestion may cause gastrointestinal discomfort. Chronic: There are no known or reported effects from chronic exposure.

- FIRST AID:

SKIN: Not a skin irritant. Washing any substance off the skin with water is good safety practice.

EYES: Flush with copious amounts of water for 15 minutes. If irritation develops, seek medical aid.

INHALATION: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

INGESTION: Immediately drink 1-2 glasses of water. DO NOT induce vomiting. Call a physician at once. DO NOT give anything by mouth if the person is unconscious or if having convulsions.

SECTION VI - REACTIVITY DATA

- STABILITY:

Unstable Stable

- HAZARDOUS POLYMERIZATION:

May occur May NOT occur

- INCOMPATIBILITY:

Will react w/active hydrogens, such as water, alcohol, ammonia, amines

alkalies & acids. The reaction w/water is very slow under 50°C, but is accelerated at higher temperatures and in the presence of alkalies, tertiary amines & metal compounds. Some reactions may be violent.

- HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide, carbon dioxide. Nitrogen oxides, ammonia, trace amounts of hydrogen cyanide.

SECTION VII - SPILL OR LEAK PROCEDURES

- STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

Wear skin, eye & respiratory protection during cleanup. Soak up material with absorbent and shovel into a chemical waste container. Cover container, but do not seal, and remove from work area. Prepare a decontamination solution of 0.2-.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's material safety data sheets. All operations should be performed by trained personnel familiar with the decontamination solution using about 10 parts of solution for each part of the spill and allow to react for at least 10 minutes. Carbon dioxide will be evolved, leaving possible polyureas.

- DISPOSAL METHOD:

Slowly stir the isocyanate waste into the decontamination solution described above using 10 parts of the solution for each part of the isocyanate. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away. Neutralize the waste. Neither the solid nor the liquid portion in a hazardous waste under RCRA 40 CFR 261.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Because of the low vapor pressure, ventilation is usually sufficient to keep vapors below TLV at room temperatures. Exceptions are when material is sprayed or heated. If airborne concentrations exceed or are expected to exceed the TLV, use NIOSH/MSHA approved positive pressure supplied air respirator with a full face piece, or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved protection against isocyanates.

- **VENTILATION:** Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.
- **EYE PROTECTION:** Chemical tight goggles, full face shield in addition if splashing is possible.
- **PROTECTIVE CLOTHING:** Gloves determined to be impervious under the conditions of use.

SECTION IX - SPECIAL PRECAUTIONS

- **PRECAUTIONS TO BE TAKEN FOR HANDLING AND STORING:** Avoid storage above 120°F (50°C).
- **OTHER PRECAUTIONS:** Prevent skin & eye contact. Observe TLV limitations. Avoid breathing vapors or aerosols. Individuals with existing respiratory disease, such as chronic bronchitis, emphysema or asthma should not be exposed to isocyanates.
- **PRODUCT STABILITY & COMPATIBILITY:** Store in tightly sealed containers to protect from atmospheric moisture. Store in a cool area.

SECTION X - SUPPLEMENTAL INFORMATION

- **REGULATORY INFORMATION:**
 - TSCA (Toxic Substance Control Act) Regulations, 40 CFR 710:
 - All ingredients are on the TSCA Chemical Substance Inventory.
 - CEPA (Canadian Environmental Protection Act):
 - All ingredients are on DSL (Domestic Substances List).
 - Supplier Notification Requirements, PER 40 CFR 372.45:
 - 50% MDI, listed methylenebis (phenylisocyanate), MBI (CAS#: 101-68-8)

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