

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name** TuffRez 236 Water Borne Urethane - Resin/Side A  
**Version #** 1.0  
**Revision date** 09-Mar-2010  
**Company information** PolySpec  
 6614 Gant Road  
 Houston, TX 77066 US  
**Emergency** Chemtrec (800) 424-9300  
 International (703) 527-3887

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Triethanolamine	102-71-6	< 10
Non-hazardous and other components below reportable levels		> 90
<b>Composition comments</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

## 3. HAZARDS IDENTIFICATION

**Emergency overview** Health injuries are not known or expected under normal use.

### Potential short term health effects

**Eyes** Contact with eyes may cause irritation.  
**Skin** Not expected to be a primary skin irritant.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** Do not ingest. May be harmful if swallowed.

## 4. FIRST AID MEASURES

### First aid

**Eye contact** Flush eyes with water as a precaution. If irritation persists get medical attention.  
**Skin contact** Rinse with water. Get medical attention if irritation develops or persists.  
**Inhalation** Call a physician if symptoms develop or persist. If breathing is difficult, give oxygen.  
**Ingestion** Have victim rinse mouth thoroughly with water. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If ingestion of a large amount does occur, seek medical attention.

**General advice** If you feel unwell, seek medical advice (show the label where possible).

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** Small Fires: Dry chemical, CO2, water spray or regular foam.

Large Fires: Water spray, fog or regular foam.

**Fire fighting equipment/instructions** Move containers from fire area if you can do it without risk. Do not scatter spilled material with high pressure water streams. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. ALWAYS stay away from tanks engulfed in flame. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions.

**Flash point** 269 °F (131.7 °C) Pensky-Martens Closed Cup

## 6. ACCIDENTAL RELEASE MEASURES

**Evacuation procedures** Stay upwind. Keep out of low areas. Keep unnecessary personnel away.

**Containment procedures** Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

**Personal precautions** Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.

<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water.
<b>Methods for cleaning up</b>	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Dike far ahead of liquid spill for later disposal. Never return spills in original containers for re-use.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Do not handle or store near an open flame, heat or other sources of ignition. Handle and open container with care. Surfaces may become slippery after spillage.
<b>Storage</b>	Keep in a cool, well-ventilated place. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Use care in handling/storage. Do not freeze.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Triethanolamine	102-71-6	5 Mg/m <sup>3</sup> TWA
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#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Triethanolamine	102-71-6	irritation; liver; kidney
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### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment. No personal respiratory protective equipment normally required.

**Eye protection** Avoid contact with eyes.

**Skin and body protection** Wear suitable protective clothing.

**General** Wear suitable protective equipment.

**Engineering measures to reduce exposure** Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

**Hygiene measures** When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Density</b>	8.8976 lb/gal
<b>Form</b>	Liquid.
<b>Specific gravity</b>	1.068

## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

<b>Stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Direct sources of heat.
<b>Incompatibility</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

### Component analysis - LD50

#### NIOSH - Selected LD50s and LC50s

Triethanolamine	102-71-6	Oral LD50 Rat: 4920 µL/kg; Oral LD50 Mouse: 5846 mg/kg; Dermal LD50 Rabbit: >20 mL/kg
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**Further information** This product has no known adverse effect on human health.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

### Environmental effects

#### Ecotoxicity - Freshwater Fish Species Data

Triethanolamine	102-71-6	24 Hr LC50 goldfish: 5000 mg/L; 96 Hr LC50 fathead minnow: 11800 mg/L (flow-through)
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## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

## 14. TRANSPORTATION INFORMATION

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

### International Air Transport Association (IATA) Requirements

Not regulated as dangerous goods.

### International Maritime Dangerous Goods (IMDG) Code Requirements

Not regulated as dangerous goods.

## 15. REGULATORY INFORMATION

**US federal regulations** This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
CERCLA/SARA Hazardous Substances - Not applicable.

### Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Triethanolamine 102-71-6 203-049-8

### Inventory - United States - Section 8(b) Inventory (TSCA)

Triethanolamine 102-71-6 Present

### Occupational safety and health administration (OSHA)

**29 CFR 1910.1200** Yes  
**hazardous chemical**

### CERCLA (superfund) reportable quantity

None

### Superfund amendments and reauthorization act of 1986 (SARA)

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** No

**Hazard categories** Immediate Hazard - No  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**NFPA ratings** Health: 0  
Flammability: 1  
Instability: 0

### International regulations

#### Canada - WHMIS - Ingredient Disclosure List

Triethanolamine 102-71-6 1 % (English Item 1621, French Item 1663)

### State regulations

#### Massachusetts - Right To Know List

Triethanolamine 102-71-6 Present

#### Pennsylvania - RTK (Right to Know) List

Triethanolamine 102-71-6 Present

## 16. OTHER INFORMATION

**Disclaimer** The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

**Issue date** 09-Mar-2010