

## 1. PRODUCT AND COMPANY IDENTIFICATION

<b>Product name</b>	<b>PermaRez 348 Reinforced Novolac Lining - Resin/Side A</b>
<b>Version #</b>	1.0
<b>Revision date</b>	20-Jun-2008
<b>Company information</b>	PolySpec 6614 Gant Road Houston, TX 77066 US
<b>Emergency</b>	Chemtrec (800) 424-9300 International (703) 527-3887

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Component(s)	CAS #	Percent
Xylene	1330-20-7	< 2
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** Irritating to eyes. Irritating to skin. Irritating to respiratory system.

### Potential short term health effects

<b>Eyes</b>	Causes eye irritation.
<b>Skin</b>	Irritating to skin.
<b>Inhalation</b>	Irritating to respiratory system.
<b>Ingestion</b>	Do not ingest.

## 4. FIRST AID MEASURES

### First aid

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 20 minutes.
<b>Skin contact</b>	Remove and isolate contaminated clothing and shoes. If skin irritation persists, call a physician. Wash off immediately with plenty of water.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Drink plenty of water.

**General advice** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** Small Fires: Dry chemical, CO<sub>2</sub>, 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. 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. Do not scatter spilled material with high pressure water streams.

**Flash point** 392 °F (200 °C) Pensky-Martens Closed Cup

## 6. ACCIDENTAL RELEASE MEASURES

**Evacuation procedures** Ventilate closed spaces before entering. Stay upwind. Keep out of low areas. Keep unnecessary personnel away.

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

<b>Personal precautions</b>	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. Avoid dust formation. Never return spills in original containers for re-use. Should not be released into the environment.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Do not breathe gas/fumes/vapor/spray. Do not handle or store near an open flame, heat or other sources of ignition. Wear personal protective equipment. Avoid contact with eyes. 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. Do not freeze.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limits

#### ACGIH - Threshold Limits Values - Short Term Exposure Limits (TLV-STEL)

Xylene	1330-20-7	150 Ppm STEL
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#### ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Xylene	1330-20-7	100 Ppm TWA
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#### ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Xylene	1330-20-7	irritation
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#### OSHA - Final PELs - Time Weighted Averages (TWAs)

Xylene	1330-20-7	100 Ppm TWA; 435 mg/m3 TWA
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### Personal protective equipment

**Respiratory protection** A NIOSH- approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. In case of insufficient ventilation wear suitable respiratory equipment.

**Hand protection** Protective gloves.

**Eye protection** Wear chemical goggles.

**Skin and body protection** Wear suitable protective clothing. Wear appropriate chemical resistant clothing.

**General** Avoid contact with the skin and the eyes.

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

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes. When using do not smoke.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Density</b>	9.6367 lb/gal
<b>Form</b>	Liquid.
<b>Specific gravity</b>	1.156

## 10. CHEMICAL STABILITY & REACTIVITY INFORMATION

<b>Stability</b>	Stable at normal conditions.
<b>Conditions to avoid</b>	Direct sources of heat.
<b>Hazardous polymerization</b>	Will not occur.
<b>Incompatibility</b>	None known.

## 11. TOXICOLOGICAL INFORMATION

**Local effects** Irritating to respiratory system. Irritating to eyes. Irritating to skin.

### Component analysis - LD50

#### NIOSH - Selected LD50s and LC50s

Xylene	1330-20-7	Inhalation LC50 Rat: 5000 ppm/4H; Oral LD50 Rat: 4300 mg/kg; Dermal LD50 Rabbit: >1700 mg/kg
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## Carcinogenicity

### ACGIH - Threshold Limits Values - Carcinogens

Xylene 1330-20-7 A4 - Not Classifiable as a Human Carcinogen

**Routes of exposure** Inhalation. Skin contact.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Components of this product are hazardous to aquatic life.

**Environmental effects** Harmful to aquatic life.

### Ecotoxicity - Freshwater Fish Species Data

Xylene 1330-20-7 96 Hr LC50 fathead minnow: 13.4 mg/L (flow-through);96 Hr LC50 rainbow trout: 8.05 mg/L (flow-through);96 Hr LC50 bluegill: 16.1 mg/L (flow-through)

### Ecotoxicity - Microtox Data

Xylene 1330-20-7 24 Hr EC50 Photobacterium phosphoreum: 0.0084 mg/L

### Ecotoxicity - Water Flea Data

Xylene 1330-20-7 48 Hr EC50 water flea: 3.82 mg/L

## 13. DISPOSAL CONSIDERATIONS

**Disposal instructions** Dispose in accordance with all applicable regulations. 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.

## 14. TRANSPORTATION INFORMATION

### Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

**ERG number** 128

### 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 a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

### CERCLA/SARA - Section 313 - Emission Reporting

Xylene 1330-20-7 1.0 % de minimis concentration

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

Xylene 1330-20-7 215-535-7

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

Xylene 1330-20-7 Present

### Occupational safety and health administration (OSHA)

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

### CERCLA (superfund) reportable quantity

Xylene: 100.0000

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

**Section 302 extremely** No  
**hazardous substance**

**Section 311 hazardous** Yes  
**chemical**

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

**NFPA ratings**  
Health: 2  
Flammability: 1  
Instability: 0

**International regulations**

**Canada - 2004 NPRI (National Pollutant Release Inventory)**

Xylene 1330-20-7 Part 1, Group 1 Substance; Part 5 Substance

**State regulations**

**Massachusetts - Right To Know List**

Xylene 1330-20-7 Present

**New Jersey - Right to Know Hazardous Substance List**

Xylene 1330-20-7 sn 2014

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

Xylene 1330-20-7 Environmental hazard

## 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**

20-Jun-2008