

1. PRODUCT AND COMPANY IDENTIFICATION

Product name TuffRez 200 Epoxy Topping Binder, Clear - Resin/Side
Version # 1.0
Revision date 19-Jun-2008
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
Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	< 90
Benzyl Alcohol	100-51-6	< 10
Isopropyl Alcohol	67-63-0	< 10
Non-hazardous and other components below reportable levels		> 2.5
Composition comments	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	

3. HAZARDS IDENTIFICATION

Emergency overview May cause sensitization by skin contact. Irritating to skin. Harmful in contact with eyes. Danger of serious damage to health by prolonged exposure. May cause breathing disorders and lung damage. May be ignited by heat, sparks or flames. Flammable/Combustible Material.

Potential short term health effects

Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury.

Skin Components of the product may be absorbed into the body through the skin. Irritating to skin. May cause sensitization by skin contact.

Inhalation May cause breathing disorders and lung damage.

Ingestion Do not ingest.

Target organs Eyes. Respiratory system. Skin.

4. FIRST AID MEASURES

First aid

Eye contact Immediately flush eyes with plenty of water for at least 20 minutes. Get medical attention if irritation develops or persists.

Skin contact Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least 20 minutes. Wash off immediately with plenty of water. If skin irritation persists, call a physician.

Inhalation Move to fresh air. Oxygen or artificial respiration if needed. If breathing is difficult, give oxygen. Get medical attention, if needed.

Ingestion Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not induce vomiting without medical advice. Drink plenty of water.

Notes to physician Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Keep victim warm. In case of shortness of breath, give oxygen. Take off contaminated clothing and shoes immediately.

5. FIRE FIGHTING MEASURES

Unusual fire & explosion hazards Runoff to sewer may cause fire or explosion hazard. Containers may explode when heated. Vapor or gas may spread to distant ignition sources and flash back.

Suitable extinguishing media	Small Fires: Dry chemical, CO ₂ , 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. 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. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in flame. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. In the event of fire, wear self contained breathing apparatus.
Flash point	118 °F (47.8 °C)

6. ACCIDENTAL RELEASE MEASURES

Evacuation procedures	Keep unnecessary personnel away. Ventilate closed spaces before entering. Stay upwind. Keep out of low areas.
Containment procedures	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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.
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.
Methods for cleaning up	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

Handling	Do not handle or store near an open flame, heat or other sources of ignition. Do not breathe gas/fumes/vapor/spray. All equipment used when handling the product must be grounded. Avoid contact with eyes. Do not get this material in contact with skin or eyes. Surfaces may become slippery after spillage.
Storage	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. The pressure in sealed containers can increase under the influence of heat. Keep away from heat and sources of ignition. Do not freeze.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits

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

Isopropyl Alcohol	67-63-0	400 Ppm STEL
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ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Isopropyl Alcohol	67-63-0	200 Ppm TWA
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ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Isopropyl Alcohol	67-63-0	Irritation; CNS
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OSHA - Final PELs - Time Weighted Averages (TWAs)

Isopropyl Alcohol	67-63-0	400 Ppm TWA; 980 mg/m ³ 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.
Hand protection	Protective gloves.
Eye protection	Wear chemical goggles. Wear face-shield and protective suit for abnormal processing problems.
Skin and body protection	Wear suitable protective clothing. Wear appropriate chemical resistant clothing. Wear appropriate chemical resistant gloves.
General	Structural firefighters protective clothing will only provide limited protection. 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 When using do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with the skin and the eyes.

9. PHYSICAL & CHEMICAL PROPERTIES

Density 11.4857 estimated
Form Liquid.

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability Risk of ignition.
Conditions to avoid High temperatures. Direct sources of heat.
Hazardous polymerization Will not occur.
Incompatibility Amines. Caustics. Isocyanates. Strong oxidizing agents. Will form explosive mixtures in air.

11. TOXICOLOGICAL INFORMATION

Local effects Risk of serious damage to eyes. Components of the product may be absorbed into the body through the skin. Irritating to skin. May cause sensitization by skin contact.

Component analysis - LD50

NIOSH - Selected LD50s and LC50s

Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	Oral LD50 Rat: 11400 mg/kg; Oral LD50 Mouse: 15600 mg/kg
Isopropyl Alcohol	67-63-0	Inhalation LC50 Rat: 16000 mg/kg/8H; Oral LD50 Rat: 5045 mg/kg; Oral LD50 Mouse: 3600 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg

Sensitization May cause sensitization by skin contact.

Carcinogenicity

ACGIH - Threshold Limits Values - Carcinogens

Isopropyl Alcohol	67-63-0	A4 - Not Classifiable as a Human Carcinogen
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Chronic toxicity Prolonged or repeated exposure may cause lung injury.

Routes of exposure Skin contact.

12. ECOLOGICAL INFORMATION

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

Environmental effects

Ecotoxicity - Freshwater Fish Species Data

Isopropyl Alcohol	67-63-0	96 Hr LC50 fathead minnow (29 days old):94900 mg/L (flow-through);96 Hr LC50 fathead minnow (31 days old):61200 mg/L (flow-through)
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Ecotoxicity - Microtox Data

Isopropyl Alcohol	67-63-0	5 Min EC50 Photobacterium phosphoreum: 35390 mg/L
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13. DISPOSAL CONSIDERATIONS

Waste codes D001: Waste Flammable material with a flash point <140 F

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. If discarded, this product is considered a RCRA ignitable waste, D001. Incinerate the material under controlled conditions in an approved incinerator. Dispose of this material and its container at hazardous or special waste collection point.

14. TRANSPORTATION INFORMATION

Department of Transportation (DOT) Requirements

Not regulated as dangerous goods.

ERG number	129
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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 Hazardous Substances - Not applicable.

CERCLA/SARA - Section 313 - Emission Reporting

Isopropyl Alcohol	67-63-0	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)
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Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS)

Isopropyl Alcohol	67-63-0	200-661-7
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Inventory - United States - Section 8(b) Inventory (TSCA)

Bisphenol-A-(Epichlorohydrin) polymer	25068-38-6	XU
Isopropyl Alcohol	67-63-0	Present

Occupational safety and health administration (OSHA)

29 CFR 1910.1200 hazardous chemical	Yes
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CERCLA (superfund) reportable quantity

None

Superfund amendments and reauthorization act of 1986 (SARA)

Section 302 extremely hazardous substance	No
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Section 311 hazardous chemical	Yes
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Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
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NFPA ratings

Health: 1
Flammability: 2
Instability: 0

International regulations

Canada - 2004 NPRI (National Pollutant Release Inventory)

Isopropyl Alcohol	67-63-0	Part 1, Group 1 Substance; Part 5 Substance
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Canada - WHMIS - Ingredient Disclosure List

Isopropyl Alcohol	67-63-0	1 % (English Item 904, French Item 1050)
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State regulations

Massachusetts - Right To Know List

Isopropyl Alcohol	67-63-0	Present
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New Jersey - Right to Know Hazardous Substance List

Isopropyl Alcohol	67-63-0	sn 1076; sn 2381 (strong-acid process manufacture)
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Pennsylvania - RTK (Right to Know) List

Isopropyl Alcohol	67-63-0	Environmental hazard
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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

19-Jun-2008