

1. PRODUCT AND COMPANY IDENTIFICATION

Product name FNEC 2369 Semi-Flexible Novolac - Resin/Side A
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
Crystalline Silica	14808-60-7	< 20
Ethyl benzene	100-41-4	< 1
Non-hazardous and other components below reportable levels		> 80

3. HAZARDS IDENTIFICATION

Emergency overview Harmful in contact with eyes. Danger of serious damage to health by prolonged exposure. May cause cancer. May cause breathing disorders and lung damage.

Potential short term health effects

Eyes Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Inhalation May cause breathing disorders and lung damage.
Ingestion Do not ingest.
Target organs Eyes. Lungs. Respiratory system.

4. FIRST AID MEASURES

First aid

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

Skin contact Get medical attention immediately. Remove and isolate contaminated clothing and shoes. Immediately flush skin with running water for at least 20 minutes. For minor skin contact, avoid spreading material on unaffected skin.

Inhalation Get medical attention immediately. Move to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, give oxygen. Get medical attention, if needed.

Ingestion If material is ingested, immediately contact a physician or poison control center. Do not induce vomiting without medical advice. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Do not use mouth-to-mouth method if victim ingested the substance.

Notes to physician Symptoms may be delayed.

General advice Keep victim warm. Keep victim under observation. In case of shortness of breath, give oxygen. 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, 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	200 °F (93.3 °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.
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 breathe gas/fumes/vapor/spray. Wear personal protective equipment. Do not handle or store near an open flame, heat or other sources of ignition. Surfaces may become slippery after spillage.
Storage	Keep container tightly closed. Keep out of the reach of children. 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)

Ethyl benzene	100-41-4	125 Ppm STEL
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ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA)

Crystalline Silica	14808-60-7	0.05 Mg/m ³ TWA (respirable fraction)
Ethyl benzene	100-41-4	100 Ppm TWA

ACGIH - Threshold Limits Values - TLV Basis - Critical Effects

Crystalline Silica	14808-60-7	silicosis; lung function; lung fibrosis; cancer
Ethyl benzene	100-41-4	Irritation; CNS

OSHA - Final PELs - Time Weighted Averages (TWAs)

Ethyl benzene	100-41-4	100 Ppm TWA; 435 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. 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.

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 Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice for diagnostics. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL & CHEMICAL PROPERTIES

Density	10.8 lb/gal
Form	Liquid.
Specific gravity	1.3

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stability	Stable at normal conditions.
Conditions to avoid	Direct sources of heat.
Incompatibility	Fluoride. Powerful oxidizers.

11. TOXICOLOGICAL INFORMATION

Local effects Risk of serious damage to eyes.

Component analysis - LD50

NIOSH - Selected LD50s and LC50s

Ethyl benzene 100-41-4 Oral LD50 Rat: 3500 mg/kg; Dermal LD50 Rabbit: 17800 µL/kg

Carcinogenicity Cancer hazard.

ACGIH - Threshold Limits Values - Carcinogens

Crystalline Silica 14808-60-7 A2 - Suspected Human Carcinogen
Ethyl benzene 100-41-4 A3 - Confirmed animal carcinogen with unknown relevance to humans

NTP (National Toxicology Program) - Report on Carcinogens - Known Carcinogens

Crystalline Silica 14808-60-7 Known Carcinogen

Chronic toxicity Prolonged or repeated exposure may cause lung injury.

12. ECOLOGICAL INFORMATION

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

Environmental effects

Ecotoxicity - Freshwater Fish Species Data

Ethyl benzene 100-41-4 96 Hr LC50 rainbow trout: 14.0 mg/L (Static); 96 Hr LC50 fathead minnow: 9.09 mg/L (flow-through); 96 Hr LC50 bluegill: 150.0 mg/L (Static)

Ecotoxicity - Microtox Data

Ethyl benzene 100-41-4 30 Min EC50 Photobacterium phosphoreum: 9.68 mg/L

Ecotoxicity - Water Flea Data

Ethyl benzene 100-41-4 48 Hr EC50 water flea: 2.1 mg/L

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 - Section 313 - Emission Reporting

Ethyl benzene 100-41-4 0.1 % de minimis concentration

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

Crystalline Silica 14808-60-7 238-878-4
Ethyl benzene 100-41-4 202-849-4

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

Crystalline Silica 14808-60-7 Present
Ethyl benzene 100-41-4 T

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** Yes**Hazard categories** Immediate Hazard - No
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No**NFPA ratings** Health: 0
Flammability: 1
Instability: 0**International regulations****Canada - 2004 NPRI (National Pollutant Release Inventory)**

Ethyl benzene 100-41-4 Part 1, Group 1 Substance

Canada - WHMIS - Ingredient Disclosure List

Crystalline Silica 14808-60-7 1 % (English Item 1406, French Item 1491)

Ethyl benzene 100-41-4 0.1 % (English Item 697, French Item 854)

State regulations**California - Proposition 65 - Carcinogens List**

Crystalline Silica 14808-60-7 carcinogen, initial date 10/1/88 (airborne particles of respirable size)

Ethyl benzene 100-41-4 carcinogen, initial date 6/11/04

Massachusetts - Right To Know List

Crystalline Silica 14808-60-7 Carcinogen; Extraordinarily hazardous

Ethyl benzene 100-41-4 Present

New Jersey - Right to Know Hazardous Substance List

Crystalline Silica 14808-60-7 sn 1660

Ethyl benzene 100-41-4 sn 0851

Pennsylvania - RTK (Right to Know) List

Crystalline Silica 14808-60-7 Present as well as its dust

Ethyl benzene 100-41-4 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** 19-Jun-2008