

## SAFETY DATA SHEET

According to Regulation (EC) No 1907/2006 (REACH)

### 1. PRODUCT IDENTIFICATION

Trade Name(s): Geo-Seal EFC Patch

Description: Modified Epoxy Resin

Synonyms: N/A

CAS No: N/A

Supplier:

EPRO Services, Inc.

PO Box 347

Derby, KS 67037

800-882-1896 (8:00am – 5:00pm CST)

### 2. HAZARD(S) IDENTIFICATION

#### Classification

Acute Toxicity Oral – Category 4

Toxicity Dermal – Category 4

Skin Irritation – Category 2

Skin Sensitizer – Category 1

Eye irritation – Category 2

Acute Toxicity Inhalation – Category 4

#### Label Elements

#### Pictograms



**Signal Word:** Danger

#### Hazard-determining Components of Labeling

Benzylalcohol

BisphenolA, Epichlorohydrin resin

**Hazardous Statements – Health:** Harmful if swallowed. Harmful if contact with skin. Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Harmful if inhaled.

**Precautionary Statements:** Avoid breathing dust/fumes/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink, or smoke while using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Rinse mouth. Call Poison Center/doctor if you feel unwell. If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call Poison Center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If skin irritation occurs, get medical advice/attention. If skin irritation or rash occurs, get medical advice/attention. If eye irritation persists, get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage. Dispose of contents/containers in accordance with local/regional/national/international regulations.

**NFPA ratings (scale 0 – 4)**

Health = 2  
Fire = 1  
Reactivity = 0

**HMIS ratings (scale 0 – 4)**

Health = 2  
Fire = 1  
Reactivity = 0

**Other Hazards – Results of PBT and vPvB assessment**

PBT: Not applicable  
vPvB: Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Mixture of substances listed below with nonhazardous additions.

CAS	Chemical Name	%
100-51-6	Benzylalcohol	8% - 20%
80-05-7	BisphenolA,Epichlorohydrin resin	80% - 90%

**4. FIRST-AID MEASURES**

**General Information:** Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore, medical observation is needed for at least 48 hours after the accident.

**Inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

**Skin Contact:** Immediately wash with water and soap and rinse thoroughly. If skin irritation continues consult a doctor.

**Eye Contact:** Remove contact lenses if worn. Rinse opened eye for several minutes under running water. Consult a doctor.

**Ingestion:** Rinse mouth and drink plenty of water. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

**Most Important Symptoms and Effects, Both Acute and Delayed:** Allergic reactions. Nausea. Dizziness. Breathing difficulty. Danger of impaired breathing.

**Indication of any Immediate Medical Attention and Special Treatment Needed:** Treat skin and mucous membrane with antihistamine and corticoid preparations. Monitor circulation.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** Carbon dioxide, dry chemical, foam.

**Specific Hazards Arising from the Substance or Mixture:** Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressure, cut, weld, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also do not reuse container without commercial cleaning or reconditioning.

**Special Equipment:** Wear protective pressure self-contained breathing apparatus (SCBA) and full turnout gear.

**Additional Information:** Cool endangered receptacles with water spray. Water spray and foam must be applied with caution to avoid frothing.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment and Emergency Procedures:** Remove persons from danger area. Use respiratory protective device against the effects of fumes/dust/aerosol. Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation. Stay upwind of spill.

**Environmental Precautions:** Do not allow to enter sewers, surface, or ground water.

**Methods and Materials for Containment and Cleaning up:** Absorb with liquid-binding, non-combustible material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated materials waste according to Item 13. Clean the affected area carefully. Suitable cleaners are warm water and cleansing agent.

## 7. HANDLING AND STORAGE

**General:** Ensure good ventilation/exhaustion at the workplace. Avoid contact with skin, eyes, and clothing. Follow all SDS label precautions even after containers are emptied as they may retain product residues. Prevent formation of aerosols.

**Storage:** Keep away from heat, sparks, and flame. Store containers in a cool, well-ventilated place. Keep container closed when not in use. Partially filled drums should be blanketed with nitrogen to avoid product being slowly oxidized to benzaldehyde.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters – Ingredients with limit values that require monitoring at the workplace:**

Chemical	ACGIH-TLV-TWA	ACGIH-TLV STEL	OSHAPEL-TWA	OSHAPEL-CEILING
Benzylalcolol	ND	ND	ND	ND
BisphenolA	ND	ND	ND	ND

### Exposure controls

**General protective and hygienic measures:** Keep away from foodstuffs, beverages, and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

**Appropriate Engineering controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

**Eye Protection:** Wear equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses or goggles are appropriate eye protection.

**Skin Protection:** Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal (technique without touching outer surface). Avoid skin contact with used gloves. Use body protection appropriate to prevent contact (e.g. lab

coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

**Respiratory Protection:** Use suitable respiratory protective device in case of insufficient ventilation. Use suitable respiratory protective device when aerosol or mist is formed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Density g/cm<sup>3</sup>:** 1.05 – 1.17

**Form:** Gel

**pH value:** Not determined

**Flash Point:** >200°F (93°C)

**Viscosity-Kinematic:** Not determined

**Upper Explosion Level:** Not determined

**Vapor Density:** 3.17 (air = 1)

**Boiling Point/Range:** 390-401°F

**Evaporation Rate:** 1.18

**Appearance:** Viscous

**Odor:** Typical

**Water Solubility/Miscibility:** Negligible

**Viscosity-Dynamic:** Not determined

**Lower Explosion Level:** Not determined

**Vapor Pressure:** < 1

**Freezing Point:** Not determined

**Auto Ignition Temp:** Not determined

**Danger of Explosion:** Does not present explosion hazard

## 10. STABILITY AND REACTIVITY

**Stability:** No information.

**Conditions to Avoid:** Avoid excess heat and sources of ignition.

**Incompatible materials:** Avoid contact with moisture and/or water. Prevent contact with halogens. Prevent contact with strong oxidizing agents. Keep away from acids.

**Hazardous Decomposition Products:** During combustion carbon monoxide may be formed.

**Hazardous Polymerization Products:** Will not occur by itself. Uncontrolled conditions with amines will cause irreversible.

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** The acute effects of this product have not been tested. Data on individual components are tabulated below.

**LD/LC50 values relevant for classification:**

Cas-No	Name	Oral LD50,mg/kg	Dermal LD50,mg/kg
25068-38-6	Bisphenol A, Epichlorohydrin resin	>1,000	>1,600
100-51-6	Benzyl alcohol	1230.0	2000.0

**Primary Routes of Entry:** Eye contact, ingestion, skin contact.

**Effects of over-exposure - Inhalation:** May be irritating to the respiratory system.

**Effects of over-exposure – Skin Contact:** Causes skin irritation. May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Harmful if absorbed through skin.

**Effects of over-exposure – Eye Contact:** Causes serious irritation to eyes. Symptoms may include stinging, tearing, redness, and swelling.

**Effects of over-exposure – Ingestion:** Harmful if swallowed. Ingestion may cause gastrointestinal tract irritation.

**Effects of over-exposure – Chronic Hazards:** No information.

## 12. ECOLOGICAL INFORMATION (non-mandatory)

No information.

### 13. DISPOSAL CONSIDERATIONS (non-mandatory)

**Waste Disposal:** Always dispose of any waste in accordance with all local, state, and federal regulations. **Steps to be Taken in Case Material is Released or spilled:** Wear appropriate personal protective equipment. (See Exposure Controls/Personal Protection Section.) Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Do not touch or walk through spilled material. Avoid runoff into storm sewers and ditches which lead to waterways. Ventilate spill area. Stay upwind of spill. Collect spilled materials for disposal. Use only non-combustible material for clean-up. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container.

### 14. TRANSPORT INFORMATION (non-mandatory)

**UN-Number (DOT, ADR, IMDG, IATA):** Not regulated.

**UN Proper Shipping Name:** No information.

**Transport Hazard Class:** No information.

**Packing Group:** No information.

**Environmental Hazards:** No information.

### 15. REGULATORY INFORMATION (non-mandatory)

**Safety, health, and environmental regulations/legislation specific for the substance or mixture**

#### North American

**SARA:** This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered under applicable definitions to meet the following categories:

Acute Health Hazard

Fire Hazard

**SARA Section 313 (Specific toxic chemical listings):** This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and the Reauthorization Act of 1986 and 40 CFR part 372. No SARA 313 components exist in this product.

**TSCA (Toxic Substances Control Act): Inventory:** This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the US. No TSCA components exist in this product.

#### US State Regulations

**New Jersey Right-to-Know:** The following materials are non-hazardous but are among the top five components in this product. No NJ Right-to-Know components exist in this product.

**Pennsylvania Right-to-Know:** The following non-hazardous ingredients are present in the product are at or greater than 3%. No PA Right-to-Know components exist in this product.

#### Proposition 65 (California)

**Warning:** The following ingredients present in the product are known to the State of California to cause cancer. No Proposition 65 carcinogens exist in this product.

**Warning:** The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive hazards. No Proposition 65 Reproductive toxins exist in this product.

#### International Regulations

**Canadian WHMIS:** This SDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**WHMIS CLASS:** No information.

## 16. OTHER INFORMATION

Volatile Organic Compounds, gr/ltr: < 60

DISCLAIMER: THE VOLATILE ORGANIC COMPOUND (VOC) CONTENT REPORTED HEREIN, IF ANY, IS BASED ON A MATERIAL VOC CALCULATION. NOTE THAT SEVERAL METHODS ARE USED FOR CALCULATING VOC CONTENT AND THAT STANDARDS/REQUIREMENTS REGARDING VOC CONTENT VARY BY LOCATION/JURISDICTION.

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