

Epoxy.com Product #26HP
MATERIAL SAFETY DATA SHEET

I. PRODUCT AND COMPANY IDENTIFICATION

Company: Epoxy Systems, Inc.
Address: 20774 W Pennsylvania Ave.
Dunnellon, FL 34431

Product Name: **A Component Epoxy.com Product #26HP**

Product Description: High Strength, High Performance Epoxy Grout

Emergency Contact No.: 1-800-633-8253 PERS

Date Prepared or Revised: May 2013
For most current MSDS, please visit our website at www.epoxy.com

II. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
BisPhenolA/Epichlorohydrin (Epoxy Resin)	25068-38-6
Alkyl Glycidyl Ether	68609-97-2

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Non-corrosive.
May cause eye and skin irritation.
May cause skin sensitization.

POTENTIAL HEALTH EFFECTS

ACUTE

Eye Contact: May cause eye irritation, swelling, tearing, redness or cornea damage.
Skin Contact: Moderate irritation. May cause skin sensitization, evidenced by rashes and hives.
Inhalation: Moderate irritation to the nose and respiratory tract. May cause Central Nervous System depression, evidenced by headache, dizziness, and nausea.
Ingestion: May cause irritation to the gastrointestinal tract. May cause Central Nervous System depression or other systemic effects.
Systemic Effects: Lungs, eyes, and skin.

IV. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persists, **CONSULT A PHYSICIAN.**

Skin Contact: Remove product and immediately wash affected area with soap and water. Do not apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persists, **CONSULT A PHYSICIAN.**

Ingestion: **DO NOT INDUCE VOMITING.** Never administer anything by mouth to an unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. **CONSULT A PHYSICIAN** if vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove patient to fresh air. If patient continues to experience difficulty breathing, **CONSULT A PHYSICIAN.**

V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, carbon dioxide or dry chemical, aqueous foam.

Fire And Explosion Hazard: Hazardous decomposition products may occur when materials polymerize at temperatures above 500°F. Do not allow run-off from fire fighting to enter drains or water courses.

Fire Fighting Equipment and Procedures: Wear full protective clothing and self-contained breathing apparatus for fire fighting. Isolate fuel supply from fire. Clear fire area of all non-emergency personnel. Use water spray to cool fire-exposed surfaces and containers.

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XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat): N/E
Acute Dermal (LD₅₀, Rabbit): N/E
Acute Inhalation (LC₅₀, Rat): N/E
Chronic Health Hazard: The Diglycidyl Ether of Bisphenol A has shown weak carcinogenicity in 2-year mice bioassays. This material has shown activity in-vitro microbial mutagenicity screening and has produced chromosomal aberrations in cultured rat liver cells. No activity when tested by vivo mutagenicity assays.

XII. DISPOSAL CONSIDERATIONS

Waste From Residues / Unused Products: This material is not a hazardous waste by RCRA criteria (40 CFR 261). Dispose of container and unused contents in accordance with federal, state, and local requirements.

XIII. TRANSPORTATION

DOT: Not Regulated For Transport
ICAO/IATA:
Basic Shipping Requirements:
UN Number: UN3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s. (Bisphenol-A Epichlorohydrin resin)
Hazard Class: 9
Packing Group: III
IMO:
Basic Shipping Requirements:
UN Number: UN3082
Proper Shipping Name: Environmentally Hazardous Substance, Liquid, n.o.s. (Bisphenol-A Epichlorohydrin resin), Marine Pollutant
Hazard Class: 9
Packing Group: III

XIV. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification: Acute/Chronic Health Hazard.
EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None.
US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65): This product contains small traces of the following chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other har

Component	Regulation	Concentration	Remarks
Phenylglycidyl ether*	ACGIH	Trace	Carcinogenic
Epichlorohydrin*	ACGIH	Trace	Carcinogenic

* May be absorbed through skin.

XV. OTHER INFORMATION

HMIS RATING

Health	Flammability	Physical Hazard
2	1	0

N/E – Not Established

This Material Safety Data Sheet (MSDS) is prepared by Epoxy Systems, Inc. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this MSDS. This MSDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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Date Prepared or Revised: May 2013
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II. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
Polyamine Adduct	N/E
Triethylenetetramine	112-24-3

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Corrosive.
Severe irritation to eyes and skin.
May cause skin sensitization.
Components of the product may affect the nervous system.

POTENTIAL HEALTH EFFECTS

ACUTE

Eye Contact: Severe irritation, swelling, tearing, redness or cornea damage. May cause burns and tissue damage.

Skin Contact: Severe irritation. May cause burns and tissue damage. May cause skin sensitization evidenced by rashes and hives.

Inhalation: Moderate irritation to the nose and respiratory tract. May cause Central Nervous System depression, evidenced by giddiness, headache, dizziness, and nausea.

Ingestion: May cause irritation to the gastrointestinal tract. May cause headache nausea. May cause Central Nervous System depression or other systemic effects.

Systemic Effects: Lungs, eyes, and skin.

IV. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persists, **CONSULT A PHYSICIAN.**

Skin Contact: Remove product and immediately wash affected area with soap and water. Do not apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persists, **CONSULT A PHYSICIAN.**

Ingestion: **DO NOT INDUCE VOMITING.** Never administer anything by mouth to an unconscious person. Rinse out mouth with water, then drink sips of water to remove taste from mouth. **CONSULT A PHYSICIAN** if vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Inhalation: Remove patient to fresh air. If patient continues to experience difficulty breathing, **CONSULT A PHYSICIAN.**

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V. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, fog or foam, carbon dioxide, dry chemical, limestone powder.
Fire And Explosion Hazard: Irritating and toxic fumes may be produced at high temperature. In a fire, may produce carbon monoxide, toxic nitrogen oxide, ammonia, and carbon dioxide. Use of water may result in the formation of very toxic aqueous solution. Do not allow run-off from fire fighting to enter drains or water courses.
Fire Fighting Equipment and Procedures: Wear full protective clothing and self-contained breathing apparatus for fire fighting. Isolate fuel supply from fire. Clear fire area of all non-emergency personnel.

VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use cautious judgment when cleaning up spill. Shut off leaks, if possible without personal risk. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.
Environmental Precautions: Construct a dike to prevent spreading. Keep out of sewers, storm drains, surface waters, and soils.
Clean-up Methods: **Small spills:** Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal. **Large spills:** Approach suspected leak areas with caution. Create a dike or trench to contain material. Soak up with absorbent material such as clay, sand or other suitable non-reactive material. Place in leak-proof containers. Seal tightly for proper disposal.
Additional Information: Notify authorities if any exposures to the general public or environment occur or are likely to occur. Dispose in accordance with federal, state, and local regulations.

VII. STORAGE AND HANDLING

Storage: Keep away from: acids, oxidizers, heat, or flames. Keep in cool, dry, well-ventilated area in closed containers. Protect containers from physical damage.
Handling: To prevent skin and eye contact under the foreseeable conditions of use, wear appropriate protective clothing and safety eyewear. When handling, do not eat, drink, or smoke. Wash thoroughly after handling. Avoid breathing fumes. Handle in a well ventilated work area.

VIII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Protective Measure: Wear appropriate personal protective equipment.
Eye Protection: Avoid contact with eyes. Wear chemical splash goggles or safety glasses with side shield.
Hand Protection: Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.
Skin and Body Protection: Wear chemical-resistant gloves and other clothing as required to minimize contact.
Respirator Protection: Not required for properly ventilated areas.
Exposure Limits:

Chemical Names	ACGIH (TLV)	OSHA (PEL)
Triethylenetriamine	N/E	N/E
Phenol (Benzenol)	5 ppm	5 ppm

IX. PHYSICAL PROPERTIES

Form: Liquid
Color: Dark Amber
Odor: Ammonia
Boiling Point: N/E
Solubility In Water: Slight
Freezing Point: N/E
Vapor Pressure: N/E
Flash Point: 262°F (128°C)
Specific Gravity: .98 @ 72°F

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X. REACTIVITY DATA

Stability: Stable under normal storage conditions.
Conditions To Avoid: Incompatible chemicals, high heat, and open flame.
Materials To Avoid: Oxidizing agents and acids.
Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, and nitrogen oxide, and other organic substances.
Hazardous Polymerization: Will not occur.

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat): N/E
Acute Dermal (LD₅₀, Rabbit): N/E
Acute Inhalation (LC₅₀, Rat): N/E
Chronic Health Hazard: Components of this product are not listed as carcinogens in concentrations of 0.1% or greater. Repeated or prolonged exposure may cause allergic reaction and/or limited sensitization.

XII. DISPOSAL CONSIDERATIONS

Waste From Residues / Unused Products: Dispose of container and unused contents in accordance with federal, state, and local requirements.

XIII. TRANSPORTATION

US DOT: Single Packaging: UN2735, Amines, Liquid, Corrosive, n.o.s. (Triethylenetetramine), 8, II
IATA: UN2735, Amines, Liquid, Corrosive, n.o.s. (Triethylenetetramine), 8, II
IMO: UN2735, Amines, Liquid, Corrosive, n.o.s. (Triethylenetetramine), 8, II

XIV. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification:
Acute/Chronic Health Hazard.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level:
Phenol.

US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65): This product contains small traces of the following chemicals that are known to the State of California to cause cancer and/or reproductive toxicity and other harm.
Phenol

XV. OTHER INFORMATION

HMIS RATING

Health	Flammability	Physical Hazard
3	1	0

N/E – Not Established

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III. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
Crystalline Silica	14808-60-7

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

May cause serious eye and skin irritation or damage
When combined with water may cause moderate to severe alkali burns,
Contains material that may cause cancer from inhalation crystalline Silica (Quartz)

POTENTIAL HEALTH EFFECTS

ACUTE

Eye Contact: May cause eye irritation, swelling, tearing, redness or cornea damage.
Skin Contact: Moderate irritation. May cause skin sensitization, evidenced by rashes and hives.
Inhalation: Moderate irritation to the nose and respiratory tract.
Ingestion: May cause irritation to the gastrointestinal tract.
Systemic Effects: Lungs, eyes, and skin.

IV. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. If redness, burning, blurred vision, or swelling persists, **CONSULT A PHYSICIAN.**

Skin Contact: Remove product and immediately wash affected area with soap and water. Do not apply greases or ointments. Remove contaminated clothing. Wash clothing with soap and water before reuse. If redness, burning, or swelling persists, **CONSULT A PHYSICIAN.**

Ingestion: **Rinse mouth immediately. DO NOT INDUCE VOMITING.**

Inhalation: Remove patient to fresh air. If patient continues to experience difficulty breathing, **CONSULT A PHYSICIAN.**

V. FIRE-FIGHTING MEASURES

Flashpoint: N/A
Suitable Extinguishing Media: Foam, water spray, dry powder, carbon dioxide
Unsuitable Extinguishing Media for Safety Reasons: Water jet
Additional Information: Product itself is non-combustible. Only the packaging materials can catch fire. The extinguishing agent normally used is sufficient.

Hazards during Fire-Fighting: Carbon monoxide, carbon dioxide, harmful vapors, evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire. Product is not combustible or explosive.

Protective Equipment for Fire-Fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

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VI. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Use cautious judgment when cleaning up spill. Shut off leaks, if possible without personal risk. Wear suitable protective clothing, gloves and eye/face protection. Evacuate personnel to safe areas.

Environmental Precautions: Keep out of sewers, storm drains, surface waters, and soils.

Clean-up Methods: Avoid raising dust. For small amounts: Pick up with suitable appliance and dispose of. For large amounts: Pick up with suitable appliance and dispose of. Pack in tightly closed containers for disposal. For residues: Rinse with plenty of water.

General Safety and Hygiene Measures: Avoid contact with skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift, the skin should be cleaned and skin care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks)

VII. STORAGE AND HANDLING

Handling General Advice: Avoid dust formation. The Cement contained in this product reacts alkaline when in contact with water or humidity. This may cause severe irritation of skin or mucous membranes. The humidity of the skin or mucous membranes is enough for this reaction. Prolonged direct contact to the dry product should be avoided therefore. Avoid inhalation of dusts. Avoid skin contact. Pour downwind and allow as little free fall as possible while emptying bags into equipment. Breathing must be protected when large quantities are decanted without local exhaust ventilation.

Protection Against Fire and Explosion: No special precautions necessary.

Storage General Advice: Containers should be stored tightly sealed in a dry place.

Storage Incompatibility: General advice: Segregate from metals. Segregate from acids. Segregate from lyes. Segregate from oxidants. Segregate from foods and animal feeds.

XII. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with Workplace Control Parameters

Crystalline Silica: OSHA TWA value 2.4 millions of particles per cubic foot of air Respirable:
The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
TWA value 0.1 mg/m³ Respirable:
The value is calculated from a specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
TWA value 0.3 mg/m³ Total Dust:
The value is calculated from specified equation using a value of 100%. Lower values of % will give higher exposure limits. See regulation for specific equation.
ACGIH TWA value 0.025 mg/m³ Respirable fraction

Personal Protective Equipment

Respiratory Protection: Breathing protection if dusts are formed.

Hand Protection: Chemical resistant protective gloves, Manufacturer's directions for use should be observed because of great diversity of types.

Eye Protections: Tightly fitting safety goggles (chemical goggles).

Body Protections: Body protection must be chosen based on level of activity and exposure.

General Safety and Hygiene Measures: Avoid contact with skin, eyes and clothing. Avoid inhalation of dusts. In order to prevent contamination while handling, closed working clothes and working gloves should be used. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift, the skin should be cleaned and skin care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks)

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XIII. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Powder	Freezing Point:	N/E
Color:	Brown	Flash Point:	N.A.
Odor:	Characteristic	Specific Gravity:	2.75 @ 75°F
Vapor Pressure:	N. A.	Solubility In Water:	Insoluble
Melting Temperature:	>1000°C		

X. REACTIVITY DATA

Stability:	Stable under normal storage conditions.
Condition to Avoid:	Avoid dust formation. Avoid humidity
Substance to Avoid:	Strong acids Strong bases, strong acids
Hazardous Reactions:	The product is stable if stored and handled as prescribed/indicated. Strong bases are formed on the addition of water.
Decomposition Products:	No hazardous decomposition products if stored and handled as prescribed/indicated.

XI. TOXICOLOGICAL PROPERTIES

Acute Oral (LD₅₀, Rat):	N/E
Acute Dermal (LD₅₀, Rabbit):	N/E
Acute Inhalation (LC₅₀, Rat):	N/E
Chronic Health Hazard:	
Irritation / Corrosion:	Irritation to eyes
Repeated Dose Toxicity:	Information on: Crystalline Silica. Repeated inhalation exposure may affect certain organs. The substance may cause increase in lung mass and lung tissue changes after repeated inhalation. This product may contain greater than 0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs, and repeated, non-specific chest illnesses.
Carcinogenicity:	Information on: Crystalline Silica: In long-term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed. In long-term animal studies in which the substance was given by inhalation in high doses, a carcinogenic effect was observed. The substance and its compounds in the form of respirable dusts/aerosols classified by the German MAK commission as a category 1 carcinogen (substances that cause cancer to humans). A carcinogenic effect cannot safely be ruled out. The inhalation uptake of the alveolar fraction of the fine dust may cause damage to the lungs. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen. The International Agency for Research on Cancer (IARC) has classified this substance as a Group 1 (known) human carcinogen NTP listed carcinogen
Experiences in Humans:	Information on: Crystalline Silica May cause silicosis.
Other Information:	Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The product has not been tested. The statements on toxicology have been derived from products of a similar structure and composition.

XIII. DISPOSAL CONSIDERATIONS

Waste Disposal of Substance:	This material is not a hazardous waste by RCRA criteria (40 CFR 261). Dispose of in accordance with local authority regulations. Do not discharge into drains/surface waters/groundwater.
Container Disposal:	Completely emptied packaging can be given for recycling.

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XIII. TRANSPORTATION

DOT: Not Regulated For Transport
ICAO/IATA: Not classified as a dangerous good under transport regulations
IMO: Not classified as a dangerous good under transport regulations

REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

EPA SARA Title III Section 312 (40 CFR 370) Hazardous Classification: Acute/Chronic

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level: None.

US. California "Safe Drinking Water and Toxic Enforcement Act" (Proposition 65): This product contains a chemicals that are known to the State of California to cause cancer

Component	Regulation	Concentration	Remarks
Silicon Dioxide	ACGIH	Trace	Carcinogenic

XVI. OTHER INFORMATION

HMIS RATING

Health	Flammability	Physical Hazard
2	0	1

N/E – Not Established

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