

Epoxy.com PRODCUT # 222 WATER BASED EPOXY COATING
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 #222**

Product Description: Water Based Epoxy Coating

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
Bisphenol A/Epichlorohydrin (Epoxy Resin)	25068-38-6
Ethylene Glycol Monopropyl Ether	2807-30-9
Solvent Naphtha (Petroleum), Heavy Aromatic	64742-94-5
Polymeric Dispersant	Proprietary

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Combustible liquid and vapor.
Harmful if absorbed through skin.
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: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing with before reuse. **CONSULT A PHYSICIAN.**

Ingestion: **DO NOT INDUCE VOMITING. CONSULT A PHYSICIAN.**

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: Do not allow run-off from fire fighting to enter drains or water courses. Contents will boil and splash at temperatures above 212°F (100°C).

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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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. Protect from freezing.

Handling: Avoid contact with eyes, skin and clothing. 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:

COMPONENT	ACGIH (TLV)	OSHA (PEL)
Bisphenol A/Epichlorohydrin (Epoxy Resin)	N/E	N/E
Ethylene Glycol Monopropyl Ether	N/E	N/E
Solvent Naphtha (Petroleum), Heavy Aromatic		
Polymeric Dispersant	N/E	N/E

IX. PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid **Freezing Point:** 32°F (0°C)

Color: White **Flash Point:** 155°F (68°C) Closed Cup

Odor: Sweet **Specific Gravity:** 1.06

Vapor Pressure: Not Volatile **Solubility In Water:** Soluble

Boiling Point: 212°F (100°C)

X. REACTIVITY DATA

Stability: Stable under normal storage conditions.

Conditions To Avoid: Incompatible chemicals, high heat and open flame.

Materials To Avoid: Oxidizing agents, acids, organic bases, and amines.

Hazardous Decomposition Products: Combustion may produce carbon monoxide, carbon dioxide, aldehydes, acids 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

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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:

NA1993, Combustible Liquid, n.o.s. (2-Propoxyethanol), Combustible Liquid, III

IATA:

UN1993, Flammable Liquid, n.o.s. (2-Propoxyethanol), 3, III

IMDG:

UN1993, Flammable Liquid, n.o.s. (Aqueous 2-Propoxyethanol), 3, III, Marine Pollutant

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:

Ethylene glycol monomethyl ether.

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:

Component	Regulation	Concentration	Remarks
Phenyl Glycidyl Ether*	ACGIH	Trace	Carcinogenic
1,4-Dioxane	ACGIH	Trace	Carcinogenic
Naphthalene	ACGIH	Trace	Carcinogenic
Acetaldehyde	ACGIH	Trace	Carcinogenic
Ethylene Oxide	ACGIH	Trace	Carcinogenic, Developmental Harm

* - May be absorbed through skin.

XV. OTHER INFORMATION

HMIS RATING

Health	Flammability	Physical Hazard
2	2	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
For most current MSDS, please visit our website at www.epoxy.com

II. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Names	CAS Numbers
Amine Adduct	N/A
Ethylene Glycol Monopropyl Ether	2807-30-9
Titanium Dioxide	13463-67-7
Silicon Dioxide	7631-86-90
Ferric Oxide, Iron Sesquioxide	1309-37-1
Acetic Acid Glacial	64-19-7

The remaining ingredients are designated as "trade secret".

III. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Harmful if swallowed.
Harmful if absorbed through skin.
Severe irritation to eyes.
Moderate skin irritant.
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: Causes skin irritation.

Inhalation: Moderate irritation to the nose and respiratory tract.

Ingestion: Harmful if swallowed.

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: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing with before reuse. **CONSULT A PHYSICIAN.**

Ingestion: **DO NOT INDUCE VOMITING. CONSULT A PHYSICIAN.**

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

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.

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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: 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: Avoid contact with eyes, skin and clothing. 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)
Amine Adduct	N/E	N/E
Ethylene Glycol Monopropyl Ether	10 ppm	10 ppm
Titanium Dioxide	10 mg/m ³	15 mg/m ³
Silicon Dioxide	.8 mg/m ³	1 mg/m ³
Acetic Acid Glacial	10 ppm	10 ppm

IX. PHYSICAL PROPERTIES

Form: Liquid

Color: Gray

Odor: Ammonia

Boiling Point: 212°F (100°C)

Solubility In Water: Complete

Freezing Point: 32°F (0°C)

Vapor Pressure: N/E

Flash Point: 155°F (68°C) Closed Cup

Specific Gravity: 1.8

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, ammonia and other organic substances.

Hazardous Polymerization: Will not occur.

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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: 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

DOT: NA1993, Combustible Liquid, n.o.s. (2-Propoxyethanol), Combustible Liquid, III
IATA: UN1993, Flammable Liquid, n.o.s. (2-Propoxyethanol), 3, III
IMDG: UN1993, Flammable Liquid, n.o.s. (Aqueous 2-Propoxyethanol), 3, III, Marine Pollutant

XIV. REGULATORY INFORMATION

Country	Regulatory List
USA	TSCA

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

Acute Health Hazard.

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

Ethylene glycol monomethyl ether.

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:

Component	Regulation	Concentration	Remarks
1,4-Dioxane	ACGIH	Trace	Carcinogenic
Acetaldehyde	ACGIH	Trace	Carcinogenic
Ethylene Oxide	ACGIH	Trace	Carcinogenic, Developmental Harm

XV. OTHER INFORMATION

HMIS RATING

Health	Flammability	Physical Hazard
2	2	0

N/E – Not Established

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