

CONSERV EPOXY LLC SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: ConServ Flexible Epoxy Consolidant W100B

Other Means of Identification: Component B – Curing Agent

Recommended use of the chemical and restrictions on use:

Product Use: Consolidating decayed wood

Uses Advised Against: None known

Manufacturer: ConServ Epoxy LLC
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SDS Date of Preparation: 5/4/15

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical:	Health:
Not Classified	Eye Damage Category 1 Skin Corrosion Category 1B Skin Sensitizer Category 1 Respiratory Sensitizer Category 1B Toxic to Reproduction Category 2

GHS Label Elements:

Danger



Contains: Diaminopolypropylene glycol, Piperazine

Statements of Hazard

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Phrases

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mists.
P264 Wash thoroughly after handling.

ConServ Flexible Epoxy Consolidant W100B

H361 Suspected of damaging fertility or the unborn child.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, eye protection and face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P310 Immediately call a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER or doctor.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local, state, and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Diaminopolypropylene glycol	9046-10-0	60-70%
Triethanolamine	102-71-6	25-35%
Piperazine	110-85-0	5-15%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush eyes with large quantities of water for 30 minutes, while holding the eyelids apart. Remove contact lenses if easy to do so. Continue rinsing. Get immediate medical attention.

Skin: Immediately flush skin with plenty of water for 15 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth with a small amount of water. Never give anything by mouth to an unconscious or drowsy person. Get immediate medical attention.

Most Important Symptoms: Causes eye damage and skin burns. Inhalation of mists may cause severe mucous membrane and respiratory irritation. May cause allergic skin and respiratory reaction (sensitization). May cause reproductive harm.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for all routes of exposure.

5. FIRE-FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use water spray or fog, dry chemical, alcohol-resistant foam, or carbon dioxide.

Specific Hazards Arising from the Chemical: Thermal decomposition may release oxides of carbon and nitrogen, and hydrocyanides.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray. Contain water used in firefighting from entering sewers or natural waterways.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Isolate the area and remove unprotected people. Prevent contact with the eyes, skin and clothing. Wear suitable protective clothing to prevent skin and eye contact. Do not breathe mists or vapors. Ventilate the area.

Methods and Materials for Containment and Cleaning Up: Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Keep out of sewers and waterways. Notify authorities of releases as required.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Wear protective clothing and equipment. Do not breathe mists or vapors. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wash clothing before re-use.

Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from acids and other incompatible materials. Keep container tightly closed. Protect from temperatures above 140°F (60°C).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Diaminopolypropylene glycol	None Established
Triethanolamine	5 mg/m ³ TWA ACGIH TLV
Piperazine	0.1 mg/m ³ TWA ACGIH TLV DSEN; RSEN (Measured as Inhalable fraction and vapor)

Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Respiratory Protection: In operations where exposure levels are excessive, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on

contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Chemical resistant gloves such as nitrile or rubber are recommended to prevent skin contact. Contact your glove supplier for assistance in selecting an appropriate glove.

Eye Protection: Wear safety goggles and face shield where splashing is possible.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing. Remove contaminated clothing no later than the end of the work day and clean thoroughly

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear colorless liquid	Flammable Limits: LEL: 0.7% (Diaminopolypropylene glycol) UEL: 5.0% (Diaminopolypropylene glycol)
Odor: Ammonia-like odor	Vapor Pressure: 1.0 mmHg @ 212°F (100°C)
Odor Threshold: Not available	Vapor Density: Not available
pH: Not available	Relative Density: 0.9380 (Water=1.0)
Melting/Freezing Point: -126.4°F (-88°C) (Diaminopolypropylene glycol)	Solubility (ies): >10% in water
Initial Boiling Point/Range: 500°F (260°C)	Partition Coefficient Octanol/Water: Not available
Flashpoint: 255°F (123.9°C)	Auto-ignition Temperature: Not available
Evaporation Rate: Not available	Decomposition Temperature: Not available
Flammability (solid, gas): Not applicable	Viscosity: 14.4 cSt @ 77°F (25°C)

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Diaminopolypropylene glycol reacts violently with acids and may product heat. Piperazine may attack certain metals such as aluminum, copper, nickel, magnesium, and zinc.

Conditions to Avoid: Avoid temperatures above 140°F (60°C).

Incompatible Materials: Oxidizing agents, acids, and metals (aluminum, copper, nickel, magnesium, and zinc).

Hazardous Decomposition Products: When heated to decomposition emits oxides of carbon and nitrogen, and hydrocyanides.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: Causes serious irritation and burns with redness, pain and tearing. May cause permanent eye damage.

Skin: Causes skin burns with redness, pain and blistering. May cause sensitization by skin contact.

Inhalation: Inhalation of mist or vapors causes severe irritation and burns of the nose, throat and upper respiratory tract. May cause allergic respiratory reaction (sensitization).

Ingestion: Swallowing may cause burns to mouth, throat, and stomach with abdominal and chest pain, nausea, vomiting, diarrhea, thirst, weakness, and collapse. Ingestion may be fatal.

Chronic: Prolonged contact may damage eyes and skin.

Sensitization: Piperazine was found to be sensitizing in a Guinea pig maximization test. Piperazine is a respiratory sensitizer based on human data collected in a survey of workers in a chemical factory who had developed occupational asthma from exposure to Piperazine. This product is expected to cause skin and respiratory sensitization.

Carcinogenicity: None of the other components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, and OSHA.

Germ Cell Mutagenicity: Not expected to cause germ cell mutagenicity.

Reproductive Toxicity: This product is expected to cause reproductive harm.

Numerical Measures of Toxicity:

Diaminopolypropylene glycol: Oral rat LD50: 2,885 mg/kg, Inhalation rat LD0: >0.74 mg/L/8hr, Skin rabbit LD50: 2,980 mg/kg

Triethanolamine: Oral rat LD50: 6400 mg/kg, Skin rabbit LD50: >2000 mg/kg

Piperazine: Oral rat LD50: 2600 mg/kg, Skin rabbit LD50: 8300 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Diaminopolypropylene glycol: 96hr LC50 Rainbow trout: >15 mg/L, 48hr EC50 Daphnia magna: 80 mg/L, 72hr EC50 Pseudokirchneriella subcapitata: 15 mg/L (growth rate), 72hr NOEC Pseudokirchneriella subcapitata: 0.32 mg/L (growth rate)

This product is expected to be toxic to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and Degradability: Diaminopolypropylene glycol is not readily biodegradable.

Bioaccumulative Potential: Diaminopolypropylene glycol: No significant accumulation in organisms is expected as a result of the distribution coefficient of noctanol/water (log Pow). Diaminopolypropylene glycol will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in Soil: Diaminopolypropylene glycol: Adsorption to solid soil phase is not expected.

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (Piperazine, polyoxypropylene diamine)

UN Number: UN3267

Hazard Class/Packing Group: 8, PG III

Labels Required: Corrosive

IMDG/IATA/ICAO Hazardous Materials Description:

Proper Shipping Name: Corrosive liquid, basic, organic, n.o.s. (Piperazine, polyoxypropylene diamine)

UN Number: UN3267

Hazard Class/Packing Group: 8, PG III

Labels Required: Corrosive, Marine Pollutant

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Acute Health, Chronic Health

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on the TSCA inventory.

STATE REGULATIONS:

California Proposition 65: This product does not contain substances known in the State of California to cause cancer and/or reproductive harm.

INTERNATIONAL REGULATIONS:

CANADIAN REGULATIONS

Canadian Environmental Protection Act: All components of this product are on the Domestic Substance List (DSL).

16. OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 1 Instability = 0
HMIS Rating: Health = 3* Flammability = 1 Physical Hazard = 0
*Chronic Health Hazard

Revision Summary:

5/4/15: New SDS

NOTICE

The above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. ConServ Epoxy LLC. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.