

CONSERV EPOXY LLC

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: ConServ Structural Epoxy Repair 600A

Other Means of Identification: Component A – Epoxy Resin

Recommended use of the chemical and restrictions on use:

Product Use: Glue component

Uses Advised Against: None known

Manufacturer: ConServ Epoxy LLC
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SDS Date of Preparation: 3/17/15

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical:	Health:
Flammable Liquid Category 4	Carcinogen Category 2 Eye Irritant Category 2 Germ Cell Mutagen Category 2 Skin Irritant Category 2 Skin Sensitizer Category 1 Specific Target Organ Toxicity –Single Exposure Category 3 (Irritant)

GHS Label Elements:

Warning



Contains: Epoxy Resin, Butyl glycidyl ether

Statements of Hazard

- H227 Combustible liquid
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.

Precautionary Phrases

- P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P210 Keep away from flames and hot surfaces. No smoking.
- Page 1 of 6

ConServ Structural Epoxy Repair 600A

H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H351 Suspected of causing cancer.

P261 Avoid breathing mists, vapors, or spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves, protective clothing, eye protection, and face 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.
P337+P313 If eye irritation persists: Get medical attention.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P333+P313 If skin irritation or rash occurs: Get medical attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312 Call a POISON CENTER or doctor if you feel unwell.
P308+P313 IF exposed or concerned: Get medical attention.
P370+P378 In case of fire: Use water spray, water fog, dry chemical, foam, or carbon dioxide to extinguish.
P403+P235+P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed.
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
Epoxy Resin	25068-38-6	50-100%
Butyl glycidyl ether	2426-08-6	10-25%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

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

Skin: Remove contaminated clothing and shoes. Flush skin with plenty of water for several minutes. Use soap if available. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

Inhalation: Remove victim to fresh air. Get medical attention if irritation persists.

Ingestion: Rinse mouth with a small amount of water. Do not induce vomiting unless directed to do so by a medical professional. Get medical attention if you feel unwell.

Most Important Symptoms: May cause moderate eye and skin irritation. May cause skin sensitization. Inhalation of mists or vapors may cause moderate respiratory irritation. This product contains Butyl glycidyl ether which is suspected of causing genetic defects and cancer.

Indication of immediate medical attention/special treatment: Immediate medical attention should not be required.

5. FIRE-FIGHTING MEASURES

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

Specific Hazards Arising from the Chemical: This product is a combustible liquid. Thermal decomposition may release carbon monoxide, carbon dioxide, aldehydes, and irritating smoke.

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.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Isolate the area and remove unprotected people. Remove all ignition sources such as open flames. Avoid contact with eyes, skin and clothing. Wear suitable protective clothing to prevent skin and eye contact. Avoid breathing 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: Avoid contact with eyes, skin and clothing. Wear protective clothing and equipment. Avoid breathing 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. Keep product away from heat, flames and all other sources of ignition.

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 oxidizers and other incompatible materials. Keep container tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Epoxy Resin	None Established
Butyl glycidyl ether	3 ppm TWA ACGIH TLV (skin; DSEN) 50 ppm TWA OSHA PEL

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 rubber or chloroprene rubber are recommended to prevent skin contact. Contact your glove supplier for assistance in selecting an appropriate glove.

Eye Protection: Wear chemical safety goggles if splashing is possible.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid	Flammable Limits: LEL: Not available UEL: Not available
Odor: Characteristic odor	Vapor Pressure: 3 mmHg @ 68°F (20°C)
Odor Threshold: Not available	Vapor Density: Heavier than air
pH: Not available	Relative Density: 1.14 g/cm ³
Melting/Freezing Point: Not available	Solubility (ies): Not miscible or difficult to mix with water
Initial Boiling Point/Range: Not available	Partition Coefficient Octanol/Water: Not available
Flashpoint: 163°F (73°C)	Auto-ignition Temperature: Product is not self-igniting
Evaporation Rate: Not available	Decomposition Temperature: Not available
Flammability (solid, gas): Not applicable	Viscosity: Not available

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Keep away from heat, flames, and other sources of ignition.

Incompatible Materials: Strong oxidizers, strong lewis acids, strong mineral acids, and curing agents.

Hazardous Decomposition Products: When heated to decomposition emits carbon monoxide, carbon dioxide, aldehydes, and irritating smoke.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: May cause moderate irritation with redness, tearing and pain.

Skin: May cause moderate irritation. May cause an allergic skin reaction (sensitization).

Inhalation: Inhalation of mists or vapors may cause moderate irritation of the nose, throat and respiratory tract.

Ingestion: Ingestion may irritate stomach and cause nausea, vomiting, and diarrhea.

Chronic: No data available.

Sensitization: This product is expected to cause sensitization.

Carcinogenicity: Butyl glycidyl ether was concluded by IARC that "there is limited evidence for the carcinogenicity of bisphenol A diglycidyl ether in experimental animals". Its overall evaluation was Biphenol A diglycidyl ether is not classifiable as to its carcinogenicity to humans (Group 3). NTP nominated Butyl glycidyl ether for carcinogenicity based on structural features containing the strained oxirane ring structure. Many compounds containing the epoxy moiety have been shown to be carcinogens. None of the other components of this product greater than 0.1% are listed as a carcinogen or suspected carcinogen by IARC, NTP, and OSHA .

Germ Cell Mutagenicity: The mutagenicity of glycidol n-butyl ether (GBE) was evaluated in Salmonella tester strains TA1535 and TA1538 (Ames Test), both in the presence and absence of added metabolic activation by Aroclor-induced rat liver S9 fraction. Based on preliminary bacterial toxicity determinations, GBE, diluted with

ConServ Structural Epoxy Repair 600A

DMSO, was tested for mutagenicity at concentrations up to 2000 ug/plate using the plate incorporation method. GBE caused a positive response in bacterial tester strain TA1535 at 2000 ug/plate, both with and without metabolic activation, and in bacterial tester strain TA1538 at concentrations of 100 ug/plate and higher without activation and at 500 ug/plate and higher with activation.

Reproductive Toxicity: Not expected to cause reproductive harm.

Numerical Measures of Toxicity: No data available for the mixture. The following are the toxicity values for the components:

Epoxy Resin: Oral rat LD50: >2000 mg/kg, Skin rabbit LD50: >23,000 mg/kg

Butyl glycidyl ether: Oral rat LD50: 2050 mg/kg, Skin rabbit LD50: 788-2520 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Epoxy Resin: 96 hr LC50 Rainbow trout: 1.2 mg/L, 48 hr EC50 Daphnia magna: 1.1-2.8 mg/L

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

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available

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: Not Regulated for shipment in non-bulk containers

UN Number: None

Hazard Class/Packing Group: None

Labels Required: None

IMDG/IATA/ICAO Hazardous Materials Description:

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. Epoxy Resin

UN Number: UN3082

Hazard Class/Packing Group: 9, PG III

Labels Required: 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, Fire Hazard

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) or are exempt from DSL requirements.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

16. OTHER INFORMATION

NFPA Rating: Health = 2	Flammability = 2	Instability = 0
HMIS Rating: Health = 2*	Flammability = 2	Physical Hazard = 0

*Chronic Health Hazard

Revision Summary:

3/17/15: 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.