



Material Safety Data Sheet

PoxyPrime Component B

MANUFACTURER
Elastomer Specialties, Inc.
2210 South Highway 69
Wagoner, OK 74467
(918) 485-2835

Issue Date: February 2001

Revised: November 2005 – new address

Revised: July 2009

1 - Chemical Product Identification

Product Code: 1201
Product Name: PoxyPrime
Product Description: Epoxy Resin
Synonyms: None
Formula: Not applicable

Component B

2 - Composition / Information on Ingredients

Polymer of Epichlorohydrin and Bisphenol A	CAS# 025085-99-8	55%
Alkyl Glycidyl Ether (C12-C14)	CAS# 068609-97-2	15%
Trimethylolpropane Triacrylate Esters	CAS# 15625-89-5	30%

3 - Hazards Identification

Emergency Overview!

COLOR: Clear light yellow liquid
ODOR: Epoxy odor

May cause allergic skin reaction.

POTENTIAL HEALTH EFFECTS (See Section II for Toxicological Data.)

EYE: May cause slight transient (temporary) eye irritation. Corneal injury is unlikely.

SKIN: Has caused allergic skin reactions in humans. Prolonged exposure not likely to cause significant skin irritation. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

INHALATION: Excessive exposure may cause irritation to upper respiratory tract.

INGESTION: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

SYSTEMIC EFFECTS: No relevant information found.

CANCER INFORMATION: Many studies have been conducted to assess the potential carcinogenicity of diglycidyl ether of bisphenol A (DGEBA) - based epoxy resins. In one of these, a DGEBA - based resin (containing high levels of several impurities, including a known animal skin carcinogen) reported a weak carcinogenic response in the skin of one of the two strains of mice tested. Recent studies have suggested slight increases in two systemic tumor types following repeated application of certain DGEBA-containing resins (or pure DGEBA), although the response was not uniform among practically identical resins. Based on these data, and the other studies which have not shown cancer, the cause - effect relationship between DGEBA-treatment and these tumor increases is questionable. Indeed, the most recent review of the international agency for research on cancer (IARC) has concluded that DGEBA is not classifiable as to its carcinogenicity.

TERATOLOGY (BIRTH DEFECTS): DGEBA did not cause birth defects or other adverse effects on the fetus when pregnant rabbits were exposed by skin contact, the most likely route of exposure, or when pregnant rats or rabbits were exposed orally.

REPRODUCTIVE EFFECTS: DGEBA did not interfere with reproduction in animal studies.

4 - First Aid Measures

SKIN: Wash off in flowing water or shower.

EYE: Flush eyes with plenty of water.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

NOTE TO PHYSICIAN: No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

5 - Fire Fighting Measures

FLAMMABLE PROPERTIES

FLASH POINT: 350°-375°F, 176.7°-190.6°C

METHOD USED: PMCC, ASTM D-93

AUTOIGNITION TEMPERATURE:

FLAMMABILITY LIMITS

LFL: Not determined

UFL: Not determined

HAZARDOUS COMBUSTION PRODUCTS: Under conditions of imperfect combustion and/or pyrolysis various phenolic compounds CO and/or CO₂ may be evolved.

OTHER FLAMMABILITY INFORMATION: None known.

RECOMMENDED EXTINGUISHING MEDIA: Foam, CO₂, dry chemical.

PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Wear positive pressure self-contained breathing apparatus and full protective equipment.

6 - Accidental Release Measures (See Section IV for Regulatory Information)

PROTECT PEOPLE: Keep unnecessary people away; isolate hazard area and deny unnecessary entry.

PROTECT THE ENVIRONMENT: Keep spark producing equipment away. For large spills, evacuate upwind of spills and contain with dike. Keep out of sewers, storm drains, surface waters and soil.

CLEANUP: Soak up in absorbent material such as sand and collect in suitable containers. Residual resin may be removed using steam or hot soapy water. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent MSDS for handling information and exposure guidelines.

7 - Handling and Storage

HANDLING: Practice caution and good personal cleanliness to avoid skin and eye contact. Avoid breathing vapors of heated material.

Storage: Store between 60°F and 90°F.

8 - Personal Protection/Exposure Controls

ENGINEERING CONTROLS: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Use safety glasses

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as face shield, boots, apron, or full-body suit will depend on the operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

RESPIRATORY PROTECTION: If respiratory irritation is experienced, use an approved air-purifying respirator.

EXPOSURE GUIDELINE(S): None established

9 - Physical and Chemical Properties

APPEARANCE: Clear (light yellow) liquid

ODOR: Faint epoxy

BOILING POINT: > 300°F

SOLUBILITY IN WATER: None

SPECIFIC GRAVITY: 1.11 - 1.14

VAPOR PRESSURE: 0.06 mm @ 70°F

VAPOR DENSITY: Not applicable when flash point >250°F

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Based on Alkyl Glycidyl Ether

2210 South Highway 69, Wagoner, OK 74467 * 918-485-2835 * Fax 918-485-2856 * www.elastomer.com / www.gatorhyde.com

10 - Stability and Reactivity

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Excessive heating over long periods of time degrades the resin. Freezing may cause a temporary haze to develop. Fire conditions increase viscosity and epoxide equivalent weight.

INCOMPATIBILITY WITH OTHER MATERIALS: Base, acid, amines and oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Refer to section 5 for hazardous combustion products.

HAZARDOUS POLYMERIZATION: Will not occur by itself, but masses of more than 1 pound of product plus an aliphatic amine will cause irreversible polymerization with considerable heat buildup.

11 - Toxicological Information (See Section 3 for Potential Health Effects.

For Detailed Toxicological Data, Write or Call the Address or Non-emergency Number show in Section 1)

SKIN: Based on information for components, the LD50 for skin absorption in rabbits is expected to be > 2000 mg/Kg.

INGESTION: The oral LD50 for rats is >2000 mg/Kg.

MUTAGENICITY: "In vivo" mutagenicity tests for DGEPA-based resins have been negative while in vitro assays have given mixed results. Negative in some cases and positive in other cases. Animal mutagenicity studies were negative.

12 - Ecological Information

MOVEMENT & PARTITIONING: Based on information for D.E.R. 331. No relevant information found for remaining component (s). Bio-concentration potential is low (BCF less than 100 or LOG POW less than 3).

DEGRADATION AND PERSISTANCE: Biodegradation under aerobic laboratory conditions is below detectable limits (D.E.R. 331) no relevant information found for remaining component (s).

ECOTOXICOLOGY: Material is highly toxic to aquatic organisms on an acute basis (LC50 between 0.1 and 1.0 mg/L in most sensitive species). (D.E.R. 331) no relevant information found for remaining component (s).

13 - Disposal Considerations (See Section 15 for Regulatory Information)

DISPOSAL: Do not dump into any sewers, on the ground, or into any body of water. All disposal methods must be in compliance with all federal, state/provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

Elastomer Specialties, Inc. has no control over the management practices or manufacturing processes of parties handling or using this material. The information presented here pertains only to the product as shipped in its intended condition as described in MSDS section 2 (composition/information on ingredients).

For unused & uncontaminated product, the preferred options include sending to a licensed, permitted: Recycler, reclaimer, incinerator or other thermal destruction device.

As a service to its customer, ESI can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess or manage chemicals or plastics, and that manage used drums. Call 918-485-2835 for further details.

14 - Transportation Information

U.S. Department of Transportation (DOT): This product is not regulated by DOT when shipped domestically by land.

Canadian TDG Information: This product is not regulated by TDG when shipped domestically by land.

15 - Regulatory Information

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, expressed or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

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U.S. REGULATIONS

SARA 313 INFORMATION: To the best of our knowledge, this product contains no chemical subject to SARA Title III Section 313 supplier notification requirements.

SARA HAZARD CATEGORIES: This product has been reviewed according to the EPA "Hazard Categories" promulgated under sections 311 and 312 of the Superfund Amendment and Re-authorization Act of 1986 (SARA Title 111) and is considered, under applicable definitions, to meet the following categories: An immediate health hazard.

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: This product is not known to contain any substances subject to the disclosure requirements of
New Jersey
Pennsylvania

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) classification for this product is:
D2B - Skin Sensitizer

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are controlled products and/or on the Ingredient Disclosure List (Canadian HPA Section 13 and 14):

COMPONENTS	CAS#	AMOUNT (%W/W)
Polymer of Epichlorohydrin and Bisphenol A	025085-99-8	83-98 %
Alkyl Glycidyl Ether (c12-c14)	068609-97-2	2-17 %

16 - Other Information

MSDS STATUS: Revised Section 13, Disposal

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