

F Form
Material Safety Data Sheet



Cover Sheet for Material Safety Data Sheet (MSDS)
Epoxy Resin and Aliphatic Amine Curing Agent
201Epoxy Aliph.doc

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Product: 3109-UV, A/111-001,B

Magnolia Plastics, Inc.
5547 Peachtree Industrial Boulevard
Chamblee, GA 30341
Emergency Telephone: Day: 770-451-2777 Night: 800-457-4280
Internet: <http://www.magnapoxy.com>

Common Name (Trade name and synonyms): Magnobond 3109-UV, Part A with 111-001, Part B

Chemical Name: Epoxy Resin and Modified Polyamide Curing Agent

Chemical Family: Epoxy; Amine

CAS Number: Mixture

Section 1: Hazardous Ingredients

| <u>Component</u> | <u>%</u> | <u>ACGIH TLV</u> |
|--|----------|---------------------|
| A: Epoxy Resins with no established TLV | 60-70 | |
| Epichlorohydrin (ECH) | < 3ppm | 0.5 ppm (skin) |
| Titanium Dioxide (dispersed in resin) | <1. | 10mg/m ³ |
| B: Amine with no established TLV | 45-55 | |
| Hazards: Corrosive, irritant | | |
| All ingredients are listed in the TSCA Inventory | | |

Section 2: Physical and Chemical Characteristics

| | | | |
|-------------------------|---|----------------------------|------|
| Boiling Point (°F): | >225°F | Specific Gravity(water=1): | 1.30 |
| Vapor Pressure (mm/Hg): | Nil | Volatiles (% by volume): | 0 |
| Vapor Density (Air=1): | >1 | Evaporation Rate (BuAc =1) | >1 |
| Solubility in Water: | Negligible | | |
| Appearance & Odor: | A: Black White liquid B: Black Liquid; ammoniacal odor | | |

Section 3: Fire and Explosion Data

Flash Point (test method): >200°F (PMCC)

Flammable Limits in Air (% by Volume): **Lel:** N/A **Uel:** N/A

Extinguishing Media: Water Spray, foam, CO₂, dry chemical

Special Fire Fighting Precautions/Procedures: Avoid breathing smoke and vapors. In a confined area, use full fire fighting equipment including an approved self-contained breathing apparatus. Cool fire exposed containers with water.

Unusual Fire and Explosion Hazards: None

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Section 4: Health Hazard Information

Threshold Limit value (TLV): Not established
ANSI Hazard Class: A: 4 B: 4
Signs and Symptoms of exposure:

| Type of Exposure | Comp | |
|---------------------------|------|--|
| Acute Overexposure | A | Moderately irritating to skin and eyes. Possible skin sensitizer. |
| | B | Vapors are irritating to skin and eyes |
| Chronic Overexposure | A | Pre-existing skin and eye disorders may be aggravated |
| | B | Unknown |
| Routes of Exposure | | |
| Inhalation | A | Not likely to produce adverse effects due to low volatility |
| | B | Vapors are irritating to the skin and eyes |
| Ingestion | A | Low order of toxicity |
| | B | Moderate toxicity; may cause burns of mouth and throat |
| Skin Absorption | A | Not likely to be absorbed through the skin in toxic amounts |
| | B | Repeated or prolonged exposure may be harmful |
| Skin Contact | A | Moderately irritating; may cause skin sensitization |
| | B | May cause chemical burns and/ or develop allergic reaction |
| Eye Contact | A | Moderately irritating |
| | B | Moderately irritating; permanent damage possible on prolonged exposure |
| Carcinogenicity | | |
| NTP | A | No |
| | B | No |
| IARC | A | No |
| | B | No |
| OSHA | A | No |
| | B | No |

Section 5: Emergency and First Aid Procedures

Skin: Remove contaminated clothing. Wash from skin with soap and water. Launder clothing prior to re-use.

Eyes: Flush with water for 15 minutes while holding the eyelids open. Get medical attention

Inhalation: Remove victim to fresh air. Administer oxygen if necessary.

Ingestion: Do not induce vomiting. Give large doses of water. Get medical attention.

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Section 6: Reactivity Data

Stability: Stable: X Unstable:
Conditions to Avoid: Elevated temperatures
Incompatibility (materials to avoid): Strong oxidizing agents, strong acids and bases
Hazardous Decomposition Products: Oxides of carbon and nitrogen
Hazardous Polymerization: May Occur: Will Not Occur: X
Conditions to Avoid: Large mixtures in bulk. Curing process is exothermic

Section 7: Spill and Leak Procedures:

Steps to be Taken if Material is Spilled or Released:

Avoid contact with liquid and vapors. Wipe with a cloth or collect on absorbent material. For large spills, dike and contain. Pump or shovel into salvage containers.

Waste Disposal Method:

Cure, then bury or incinerate. Remove salvage containers to a waste disposal site operating in compliance to federal, state and local regulations.

Section 8: Special Protection Information

Respiratory Protection (Specific Type):

For excessive vapors or to maintain below the TLV limit, NIOSH approved respirator in compliance to 29 CFR 1910.134.

Ventilation: Local Exhaust: Yes
Mechanical: Yes
Other: As required

Protective Gloves: Impervious rubber

Eye Protection: Splash proof chemical goggles

Other Protective Equipment: For prolonged exposure, impervious clothing and boots to minimize personal contact. Eye wash station. Safety shower.

Section 9: SARA Title III Information

Section 302/304: Extremely Hazardous Substance

| <u>Component</u> | <u>CAS #</u> | <u>%</u> | <u>RO (lbs)</u> | <u>TPO (lbs)</u> |
|------------------|--------------|----------|-----------------|------------------|
| Epichlorohydrin | 106-89-8 | < 3 ppm | 1000 | |

CERCLA Section 102 (a): Hazardous Substance

| <u>Component</u> | <u>CAS #</u> | <u>%</u> | <u>RO (lbs)</u> |
|------------------|--------------|----------|-----------------|
| Epichlorohydrin | 106-89-8 | < 3 ppm | 1000 |

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Section 9: SARA Title III Information (continued):

Section 311: Hazardous Categorization

| | | | | | |
|--------------|----------------|-------------|-----------------|-----------------|-----------------------|
| <u>Acute</u> | <u>Chronic</u> | <u>Fire</u> | <u>Pressure</u> | <u>Reactive</u> | <u>Non-Applicable</u> |
| X | X | | | | |

Section 313: Toxic Chemicals

| | | |
|------------------|--------------|----------|
| <u>Component</u> | <u>CAS #</u> | <u>%</u> |
| Epichlorohydrin | 106-89-8 | <3 ppm |
| Titanium Dioxide | 13463-67-7 | <1 |

Section 10: Special Precautions For Industrial Use only!

Warning Statements:

A: . May cause skin irritation; avoid contact with eyes.
B: **Corrosive.** May cause severe eye burns.

Precautions to be taken in Handling and Storage:

Store in a cool, dry area in tightly closed containers. Avoid contact with skin and eyes. Use with adequate ventilation. Use good hygiene practices.

Other Precautions:

| | |
|---------------------|---|
| RCRA Status: | Not considered to be a hazardous waste |
| CERCLA: | Not listed |
| DOT Class: | A: Not regulated |
| | B: Corrosive Liquid, Basic, Organic, N.O.S., UN 3267 |

Section 11: Miscellaneous

| | | |
|----------------------|--------------------|----------|
| | <u>HMIS Rating</u> | |
| | <u>A</u> | <u>B</u> |
| Health: | 2 | 3 |
| Flammability: | 1 | 1 |
| Reactivity: | 0 | 0 |

This Material Safety data Sheet (MSDS) has been prepared in compliance with the federal OSHA Hazard Communication Standard 29 CFR 1919,1200. The information contained herein is based on data available to us and is believed to be accurate. However, Magnolia Plastics, Inc. makes no warranty expressed or implied concerning the accuracy of the information contained herein. It is the user's responsibility to determine the safety, toxicity and suitability of the product described herein. All materials may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist.

Original Date: 6/8/99 **Revision Date:** **Revision Number:**