

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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# F Form Material Safety Data Sheet



**Product:** 106-288, A & B

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**Common Name** (Trade name and synonyms): **Magnobond 106-288, A & B**

**Chemical Name:** **Epoxy Resin and Modified Polyamide Curing Agent**

**Chemical Family:** **Epoxy; Amine**

**CAS Number:** **Mixture**

## **Section 1: Hazardous Ingredients**

<b><u>Component</u></b>	<b><u>%</u></b>	<b><u>ACGIH TLV</u></b>
A. Polyamide Resin with no established TLV	70-80	
Diethylene Triamine (DETA)	5-10	1 ppm (skin)
Heterocyclic Alcohol	5-10	10 ppm
Hazards: Corrosive, irritant		
A & B: Phenol	<1	5 ppm
B: Epoxy Resin with no established TLV	>85	
Butyl Glycidyl Ether (BGE)	<10	25 ppm
All ingredients are listed in the TSCA Inventory		

## **Section 2: Physical and Chemical Characteristics**

<b>Boiling Point (°F):</b>	>225°F	<b>Specific Gravity(water=1):</b>	1.05
<b>Vapor Pressure (mm/Hg):</b>	Nil	<b>Volatiles (% by volume):</b>	0
<b>Vapor Density (Air=1):</b>	>1	<b>Evaporation Rate (BuAc =1)</b>	>1
<b>Solubility in Water:</b>	Negligible		
<b>Appearance &amp; Odor:</b>	<b>A:</b> Tan viscous liquid; ammoniacal odor <b>B:</b> Yellow liquid; ether odor		

## **Section 3: Fire and Explosion Data**

**Flash Point (test method):** **A:** >200°F (PMCC) **B:** 173°F (PMCC) - BGE

**Flammable Limits in Air (% by Volume):** **A:** **Lel:** 1.8 **Uel:** 16.3

**Extinguishing Media:** Water Spray, foam, CO<sub>2</sub>, 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	Corrosive; extremely irritating to skin and eyes
	B	Severely irritating to skin and eyes; possible skin sensitizer
Chronic Overexposure	A	Unknown
	B	Pre-existing skin and eye disorders may be aggravated
<b>Routes of Exposure</b>		
Inhalation	A	Vapors are irritating; may cause irritation of the respiratory tract
	B	May cause irritation to nose, throat and respiratory tract
Ingestion	A	Moderate toxicity; may cause burns of mouth and throat
	B	Moderate toxicity; may be harmful
Skin Absorption	A	Repeated or prolonged exposure may be harmful
	B	May possibly be absorbed through skin in toxic amounts
Skin Contact	A	May cause chemical burns or develop allergic skin reaction
	B	Severely irritating; may develop allergic reaction
Eye Contact	A	Moderately irritating; permanent damage possible on prolonged exposure
	B	Severely irritating
<b>Carcinogenicity</b>		
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>RQ(lbs)</u>	<u>TPQ (lbs)</u>
Phenol	108-95-2	<1	1000	500, 10,000

### *CERCLA Section 102 (a): Hazardous Substance*

<u>Component</u>	<u>CAS #</u>	<u>%</u>	<u>RQ (lbs)</u>
Phenol	108-955-2	<1	1000

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Section 9: SARA Title III Information (continued):

**Section 311: Hazardous Categorization**

<u>Acute</u> X	<u>Chronic</u> X	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>	<u>Non-Applicable</u>
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**Section 313: Toxic Chemicals**

<u>Component</u>	<u>CAS #</u>	<u>%</u>
Phenol	108-95-2	<1

**Section 10: Special Precautions For Industrial Use only!**

**Warning Statements:**  
**A:** Corrosive; may cause severe eye burns  
**B:** Avoid contact with skin and eyes

**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:**

<b>RCRA Status:</b>	Not considered to be a hazardous waste
<b>CERCLA:</b>	Not listed
<b>DOT Class:</b>	<b>A:</b> Corrosive Liquid, Basic, Organic, N. O. S., UN 3267
	<b>B:</b> Not regulated in containers <119 gallons Combustible Liquid, N. O. S. in containers > 119 gallons - BGE

**Section 11: Miscellaneous**

	<u>HMIS Rating</u>	
	<u>A</u>	<u>B</u>
<b>Health:</b>	3	2
<b>Flammability:</b>	1	1
<b>Reactivity:</b>	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:** 5/20/93    **Revision Date:** 2/12/01    **Revision Number:** 1