

F Form  
**Material Safety Data Sheet**



**Cover Sheet for Material Safety Data Sheet**  
**Epoxy Resin and Aromatic Amine Curing Agent**  
**201EpoxyArom.doc**

**Product:**

| CI        | Chg. Index | Date   | Owner       |          | Date    | Name        | Initials | Dept.   | Doc. ID:            |  |
|-----------|------------|--|-------------|----------|---------|-------------|----------|---------|---------------------|--|
|           | 1.0        | 4/26/99  | P. Doucette | Created  | 4/26/99 | P. Doucette | PED      | Quality | <b>F0201-03.doc</b> |  |
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**Common Name** (Trade name and synonyms): **Magnobond 81-3, A & B**

**Chemical Name:** **Epoxy Resin and Aromatic Amine 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: Epoxy Resins with no established TLV        | 80-90           |                         |
| Phenolic Microballoons with no established TLV | 10-20           |                         |
| B: Aromatic Amine                              | >40             | see attached sheet      |
| Amine with no established TLV                  | <60             |                         |
| All ingredients are listed in the TSCA Index.  |                 |                         |

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

|                                |  |                                    |      |
|--------------------------------|--|------------------------------------|------|
| <b>Boiling Point</b> (°F):     | >225°F   | <b>Specific Gravity</b> (water=1): | 0.80 |
| <b>Vapor Pressure</b> (mm/Hg): | Nil  | <b>Volatiles</b> (% by volume):    | 0    |
| <b>Vapor Density</b> (Air=1):  | >1   | <b>Evaporation Rate</b> (BuAc=1):  | >1   |
| <b>Solubility in Water:</b>    | Negligible   |                                    |      |
| <b>Appearance &amp; Odor:</b>  | <b>A:</b> Viscous purple liquid; characteristic odor<br><b>B:</b> Dark ammbler liquid; ammoniacal odor |                                    |      |

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

**Flash Point** (test method): >200°F (PMCC)  
**Flammable Limits in Air** Water spray, foam, CO<sub>2</sub>, dry chemical

**Special Fire Fighting Precautions/Procedures:** Avoid breathing smoke. In confined areas, full fire fighting eqquipment including a NIOSH 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**

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**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    | Skin and eye irritation. Skin sensitizer.                              |
| Chronic Overexposure      | A    | Pre-existing skin and eye disorders may be aggravated                  |
|                           | B    | Eye irritation; skin rashes; pre-existing liver and kidney conditions  |
| <b>Routes of Exposure</b> |      |  |
| Inhalation                | A    | Moderately toxic; may be harmful                                       |
|                           | B    | Vapors are irritating to the skin, eyes and respiratory tract          |
| Ingestion                 | A    | Moderately toxic; may be harmful                                       |
|                           | B    | Moderate toxicity; may cause respiratory tract irritation              |
| Skin Absorption           | A    | May be absorbed through the skin in toxic amounts                      |
|                           | B    | May cause allergic reaction  |
| Skin Contact              | A    | Moderately irritating; may cause skin sensitization                    |
|                           | B    | May cause allergic reaction; may stain skin                            |
| Eye Contact               | A    | Moderately irritating; may cause sensitization                         |
|                           | B    | Moderately irritating; permanent damage possible on prolonged exposure |
| <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 eyelids open

**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 shoes 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> |
|------------------|--------------|----------|-----------------|------------------|
| None             |              |          |                 |                  |

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

| <u>Component</u> | <u>CAS #</u> | <u>%</u> | <u>RQ (lbs)</u> |
|------------------|--------------|----------|-----------------|
| None             |              |          |                 |

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## Section 9: SARA Title III Information (continued):

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## 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> |
| None             |              |          |

## Section 10: Special Precautions

**For Industrial Use Only!**

Warning Statements:

|           |   |
|-----------|---|
| <b>A:</b> | May cause skin irritation; avoid contact with eyes. |
| <b>B:</b> | May cause skin and eye irritation.                  |

## 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> Not regulated                                       |
|                     | <b>B:</b> Corrosive Liquid, Basic, Organic, N. O. S., UN 3267 |

## Section 11: Miscellaneous

|                      | <u>HMIS Rating</u> |          |
|----------------------|--------------------|----------|
|                      | <u>A</u>           | <u>B</u> |
| <b>Health:</b>       | 2                  | 3        |
| <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:** 11/6/96      **Revision Date:** 5/14/01      **Revision Number:** 2