

F Form
Material Safety Data Sheet



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

Product: 1065-5, A & B

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Common Name (Trade name and synonyms): **Magnobond 1065-5, A & B**

Chemical Name: **Epoxy Resin and Modified Aromatic Amine 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 | 30-40 | |
| Vinylcyclohexene Diepoxide (VCHD) | 5-15 | 10 ppm (skin) |
| B: 4,4'-Methylene Dianiline (MDA) | 40-45 | 0.01 ppm (skin) |
| Amine with no established TLV | 15-25 | |
| 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): | 1.60 |
| 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 viscous liquid | | |
| | B: Amber viscous liquid; ammoniacal odor | | |

Section 3: Fire and Explosion Data

Flash Point (test method): >200°F (PMCC)
Flammable Limits in Air Water spray, foam, CO₂, dry chemical

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

Unusual Fire and Explosion Hazards: A: Do not use band heaters to warm. Keepaway from all sources of heat and direct sunlight.
B: None

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Section 4: Health Hazard Information

Threshold Limit value (TLV): Not established
ANSI Hazard Class: A: 4 B: 6

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 | Eye irritation, skin rashes, abnormal liver and kidney effects |
| Routes of Exposure | | |
| 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 | Severely irritating; may cause sensitization |
| | B | Moderately irritating; permanent damage possible on prolonged exposure |
| Carcinogenicity | | |
| NTP | A | No |
| | B | Contains MDA |
| IARC | A | No |
| | B | Contains MDA |
| OSHA | A | No |
| | B | Ncontains MDA |

Section 5: Emergency and First Aid Procedures

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

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>RO (lbs)</u> | <u>TPO (lbs)</u> |
|-------------------------|---------------------|-----------------|------------------------|-------------------------|
| None | | | | |

CERCLA Section 102 (a): Hazardous Substance

| <u>Component</u> | <u>CAS #</u> | <u>%</u> | <u>RO (lbs)</u> |
|---------------------------------|---------------------|-----------------|------------------------|
| 4, 4'-Methylene Dianiline (MDA) | 101-77-9 | 40-45 | 1 |

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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> |
| 4, 45'-Methylene Dianiline (MDA) | 101-77-9 | 40-45 |

Section 10: Special Precautions _FOR INDUSTRIAL USE ONLY !

Warning Statements:

- A: May cause skin irritation; avoid contact with eyes.
- B: **Contains MDA** ; May cause skin and eye irritation.

Precautions to be taken in Handling and Storage:

- A: **Store at 40°F or below in tightly closed containers. Keep away From all sources of heat and direct sunlight.**
- B: 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: | 3 | 4 |
| Flammability: | 1 | 1 |
| Reactivity: | 1 | 1 |

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.

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