

F Form
Material Safety Data Sheet



Cover Sheet for Material Safety Data Sheet)
Epoxy Resin and Polyamide Curing Agent
201Epoxy Poly.doc

Product: 9001, A & B

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Common Name (Trade name and synonyms): Magnobond 9001, A & B

Chemical Name: Polybutadiene and Isocyanate

Chemical Family: Urethane

CAS Number: Mixture

Section 1: Hazardous Ingredients

<u>Component</u>	<u>%</u>	<u>ACGIH TLV</u>
A: Methylene Bisphenyl Isocyanate (MDI)	10-15	0.005 ppm

Hazards: Irritant, sensitizer

All ingredients are listed in the TSCA Inventory.

Section 2: Physical and Chemical Characteristics

Boiling Point (°F):	>225°F	Specific Gravity (water=1):	0.9
Vapor Pressure (mm/Hg):	Nil	Volatiles (% by volume):	0
Vapor Density (Air=1):	>1	Evaporation Rate (BuAc =1)	>1
Solubility in Water:	A: Insoluble; reacts to form a diacid. B: Negligible		
Appearance & Odor:	A: Light straw colored liquid B: Clear liquid		

Section 3: Fire and Explosion Data

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

Flammable Limits in Air 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: 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	Severely irritating to mucous membranes. Minor irritation to skin and eyes.
	B	No known health hazards
Chronic Overexposure	A	Unknown
	B	Unknown
Routes of Exposure		
Inhalation	A	May cause irritation to mucous membranes; reduced pulmonary function
	B	No known adverse health effects
Ingestion	A	Irritation action on mouth and stomach tissue
	B	No known adverse health effects
Skin Absorption	A	May cause temporary stains and possible allergic reaction
	B	No known adverse health effects
Skin Contact	A	Minor irritation due to reaction with skin moisture
	B	No known adverse health effects
Eye Contact	A	Minor irritation with tearing
	B	May produce irritation
Carcinogenicity		
NTP	A	Contains MDI
	B	No
IARC	A	Contains MDI
	B	No
OSHA	A	Contains MDI
	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. Get medical attention.

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

Ingestion: Induce vomiting with warm salt 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 acids and bases, water, alcohols, metal compounds.
Hazardous Decomposition Products: 500°F: Oxides of carbon and nitrogen; HCN.
Hazardous Polymerization: May Occur: X Will Not Occur:
Conditions to Avoid: All forms of moisture; water.

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, .

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>
MDI	101-68-8	10-15	5000

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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>
MDI	101-68-8	10-15

Section 10: Special Precautions For Industrial Use Only!

Warning Statements: **A:** Avoid contact with skin, eyes and clothing. Harmful if inhaled.
 B: Avoid contact with skin, eyes and clothing.

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.

Note: A: Protect from moisture contamination. Reacts slowly with water releasing CO₂ which may buildup and rupture closed containers.

Other Precautions:

RCRA Status:	Not considered to be a hazardous waste
CERCLA:	Not listed
DOT Class:	A: Not classified
	B: Not classified

Section 11: Miscellaneous

	<u>HMIS Rating</u>	
	<u>A</u>	<u>B</u>
Health:	3	2
Flammability:	1	1
Reactivity:	1	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.

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