

MATERIAL SAFETY DATA SHEET

SECTION I - Product/ Company Identification

1.1 Product Trade Name: ENCORE BOND Chemical Cure Bonding Resin
1.2 Part (Item) Number(s): 310081
1.3 Division Name: CENTRIX INCORPORATED
1.4 Address: 770 RIVER ROAD
City State Zip: SHELTON, CT 06484
1.5 Emergency Telephone Number: (800) 424-9300 (Chemtrec)
1.6 Information Telephone Number: (800) 235-5862 / (203) 929-5582
1.7 Date Revised: 01.30.04

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	Concentration	CAS NO.	S	R	OTHER LIMITS
Bis GMA	15 - 25 %	1585-04-2	S16/23/24/25/26	R36/37/38/22	
Diurethane Dimethacrylate	5 - 10 %	109-16-0	S16/23/24/25/26	R36/37/38/22	
Benzoyl Peroxide	0.4 - 1 %	94-36-0	S3/24/25/46/49/53	R2/5/36/37/38	
Hydroxyethyl Methacrylate	2 - 10 %	000868-77-9	S16/23/24/25/26	R36/37/38/22	
N,N-bis(2-Hydroxyethyl)-p-Toluidine	0-2 %	3077-12-1	S16/23/24/25/26/28	R21/22/46/36	

SECTION III - Hazards Identification

HAZARD CLASSIFICATION Harmful if swallowed

SECTION IV - First Aid Measures

Skin: Wash off with soap and water. If irritation persists consult a phisician.
Ingestion: Do not induce vomiting, seek medical attention.
Eyes: Flush with plenty of water. Seek medical attention by an Ophtalmologist.
Inhalation: N/A

SECTION V - Fire-fighting Measures.

Suitable extinguishing Media: Chemical Foam, Carbon Dioxide, or Dry Chemical
Forbidden estinguish Media: Unknown
Special Exposure Hazards: None. Wear self contained breathing equipment
Unusual fire and explosion hazards: Heat can initiate exoterm polimerization.
Special Protection Equipment: Unknown

SECTION VI - Accidental release measures

Personal Precautions: See sections VII and VIII
Environmental Precautions: Do not dump in sewer the spilled material.
Methods for Cleaning up: Clean up using impervious gloves and dispose of in an approved manner.

SECTION VII - Handling and Storage

Handling: Avoid unnecessary exposure.
Storage: Room Temperature, dry place. Keep away from sources of ignition. Do not freeze.
Containers: Supplied by manufacturer.
Incompatibilities: Peroxides, Amines, Oxidizing or Reducing Agents.
Other Precautions: Use according to directions. Avoid contact with eyes, skin and soft tissue.

SECTION VIII - Exposure Controls / Personal Protection.

General Measures: Ventilation: good general ventilation
Limits: TWA: not determined; PEL not determined
Respiratory protection: Avoid prolonged breathing vapors of the uncured material
Hands Protection: Impervious Gloves
Eye Protection: Safety Glasses or Goggles.
Skin Protection: Respect good personal hygiene practice. Avoid unnecessary exposure.
Other Equipment: Lab Coat.

SECTION IX - Physical and Chemical Properties.

Appearance:	Viscous liquids	Explosion Limits:	Not Determined
		Flash Point	Not determined
Odour	Slight acrylic	Water solubility:	Insoluble
Vapor Pressure	Not Determined	Specific Gravity	1-2 g/cm ³
Boiling Point:	Not Determined	Evaporation Rate:	Not Determined

SECTION X - Stability and Reactivity.

Stability:	Stable in normal storage conditions
Conditions to avoid:	Temperatures over 40 °C and contamination
Materials to avoid:	Peroxides, Amines, Oxydizing and Reducing Agents
Hazardous Decomposition Products:	Carbon Oxydes
Hazardous Polimerization Products:	May occur

SECTION XI - Toxicological Information.

Ingestion:	May cause indigestion or may be fatal
Eye contact:	May cause irritation, pain, eye burns or permanent eye damage.
Skin Contact:	May cause cause irritation or rash for persons with preexistent skin sensitivity.
Inhalation:	Inhalation may cause irritation of the respiratory system.
Prolonged exposure:	N/A

SECTION XII - Ecological Information.

There is no specific information on the product. Use according to good working practice.
Avoid releasing the product into environment.

SECTION XIII - Disposal Considerations.

Incinerate or dispose according to local regulations.

SECTION XIV - Transport Information.

Additional Information: Not dangerous cargo.

SECTION XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol:	Xn	
	R22	Harmful if swallowed
	R36/37/38	Irritating to eyes, respiratory system and skin
	S36	Wear protective clothing

Ingredients Determining the label:	Methacrylate Esters Monomers
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SECTION XVI - Other Information

None.

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY.

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.