

Manufactured by:



354 West Street, West Bridgewater, MA 02379  
Phone: (508) 587-4502 Fax: (508) 587-4514

Package For/Supply By:



33 Bridge Street, Pelham, NH 03076  
Phone: (603) 635-2800 Fax: (603) 635-1900

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Information

Product Name: DeltaBOND 155 A

Product Description: Liquid Epoxy Resin

Company: Cast-Coat, Inc. 354 West Street, West Bridgewater, Massachusetts 02379 USA

Telephone: (800) 527-4502 or (508) 587-4502

Emergency Contact: CHEMTREC (800) 424-9300 (domestic) or (703) 527-3887 (international)

### 2. Composition/Information on Ingredients

<u>Components</u>	<u>CAS #</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH PEL</u>
P DeltaBOND 155 A	Mixture	100	none established	
1 Bisphenol A/Epichlorohydrin Resin	25068-38-6	<65	none established	
2 N-Butyl Glycidyl Ether	2426-08-6	<12	25 ppm	25 ppm

Component 1 is an epoxy resin produced by the condensation reaction of epichlorohydrin and bisphenol A. The epichlorohydrin is consumed in the process and the residual levels are controlled to 2-3 ppm maximum.

Although there may be one or more mineral fillers used in the compounding of this product, the physical state has been altered from a powder to a liquid and is therefore not considered a hazard as defined in 29 CFR 1910.1200.

### 3. Hazards Identification

Eye Contact: Product may be irritating to the eyes. Product may cause corneal damage.

Skin Contact: Product may cause skin irritation. Product may cause skin sensitization.

Inhalation: Product may cause irritation to the respiratory tract.

Health Hazard: Although no human testing has been done, the presence of component 2 suggests that the product may be slightly toxic if ingested or absorbed. Although no human testing has been done, the presence of component 2 suggests that the product may cause respiratory tract sensitization, however, this is not a likely route of exposure due to its low volatility at ambient temperature.

Aggravated Medical Conditions: Pre-existing eye, skin and respiratory disorders may be aggravated by exposure to this product. Pre-existing respiratory and skin allergies may be increased from exposure to this product.

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#### 4. First Aid Measures

General Advise: Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

Eye Contact: Immediately flush eyes with water for at least 30 minutes. Seek medical attention if irritation persists.

Skin Contact: Remove contaminated clothing and wipe excess from skin. Promptly wash with soap and water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Move to fresh air and provide oxygen if necessary.

Ingestion: If conscious, give no more than two glasses of water and induce vomiting. Keep victim's head below hips while vomiting. Seek medical attention.

#### 5. Fire-Fighting Measures

Extinguishing Media: Carbon dioxide (CO<sub>2</sub>), foam, dry chemical, water spray.

Protective Equipment: Do not enter confined space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). Use self contained, positive pressure breathing apparatus.

Specific Hazards: Decomposition and combustion products may be toxic. Containers exposed to intense heat should be cooled with water to prevent vapor pressure build up.

#### 6. Accidental Release Measures

Personal Protection:

Eyes - Wear splash proof chemical goggles.

Skin - Wear impervious gloves and protective clothing to prevent skin contact.

Inhalation: Use NIOSH approved respirator suitable for organic vapors.

Environmental Concerns: Construct a dike to prevent from entering sewers, rivers and waterways.

Clean Up: Soak up residue with absorbent material and shovel into non-leaking containers.

#### 7. Handling and Storage

Handling: Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking. Wear splash proof chemical goggles, impervious gloves and protective clothing to prevent skin contact. Emergency eye wash stations should be readily accessible.

Ventilation: Provide effective mechanical exhaust. Wear NIOSH approved respirator suitable for organic vapors in the absence of ventilation.

Storage: Store in a cool, dry location in tightly sealed containers.

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8. Exposure Controls/Personal Protection

Engineering Measures: Provide readily accessible eye wash stations. Provide effective mechanical exhaust.

Personal Protective Equipment:

Eyes - Wear splash proof chemical goggles.

Skin - Wear impervious gloves. Wear protective clothing to prevent skin contact.

Inhalation - Wear NIOSH approved respirator suitable for organic vapors in the absence of ventilation.

Comments: These precautions are for room temperature handling. Use at elevated temperatures may require additional precautions.

9. Physical and Chemical Properties

Appearance: Viscous Liquid

Color: Blue

Odor: Mild Aromatic

Specific Gravity: 2.0 - 2.2

Vapor Pressure: < 1.00 mmHg at 25' C

Solubility in Water: Insoluble

Flashpoint: > 100' C

10. Stability and Reactivity

Stability: Stable under normal conditions.

Materials to Avoid: Avoid strong oxidizing agents, strong lewis or mineral acids, strong mineral and organic bases.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

Comments: Hazardous polymerization will not occur.

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## 11. Toxicological Information

Acute Health Hazard:

Ingestion: P - LD50      no data available  
                  1 - LD50    11.4 g / kg    species: rat  
                  2 - LD50    2.26 g / kg    species: rat

Skin:            P - LD50      no data available  
                  1 - LD50    > 2000 mg / kg    species: rabbit  
                  2 - LD50    > 788 mg / kg    species: rabbit

Inhalation: P - LC50      no data available  
                  1 - LC50      no data available  
                  2 - LC50    > 3500 ppm / 4 hours    species: mouse

Chronic Health Hazard: Rats exposed to component 2 at 150 ppm for 50 7-hour exposures demonstrated significantly retarded growth. In the same study, there was 50% mortality in rats exposed at 300 ppm, with additional signs of toxicity in the survivors. Testicular atrophy was observed in rats exposed at 300 ppm, but the rats were juvenile, obscuring the significance if any, of the result. In a 28 day inhalation study, rats exposed at 188 ppm showed decreased body weight and changes in blood chemistry. Severe irritation of the upper respiratory tract was observed in rats exposed at 94 ppm and 188 ppm.

## 12. Ecological Information

Biodegradability: no data available  
Aquatic Toxicity: no data available

## 13. Disposal Considerations

Comments: Dispose of in accordance with federal, state and local regulations.

## 14. Transportation Information

CFR: not regulated for transport  
IATA: not regulated for transport  
IMDG: t regulated for transport

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15. Regulatory Information

The components of this product are listed on the EPA/TSCA inventory of chemical substances.

EPA Sara Title III Section 312 Hazard Classification: Chronic health hazard, Acute health hazard

EPA Sara Title III Section 313: Components above 'de minimus' level: none

State Regulatory Information

<u>Component</u>	<u>CAS #</u>	<u>%</u>	<u>State Code</u>
N-Butyl Glycidyl Ether	2426-08-6	< 12	FL, IL, MA, ME, MN, NJ, PA, RI,
Epichlorohydrin	106-89-8	2 - 3 ppm	MA, CA 65 C/R

FL = Florida substance list

MA = Massachusetts substance list

MN = Minnesota hazardous substance list

RI = Rhode Island hazardous substance list

IL = Illinois toxic substance list

ME = Maine hazardous substance list

PA = Pennsylvania hazardous substance list

NJ = New Jersey hazardous substance list

CA 65 C/R = The chemical identified with this code is known to the state of California to cause cancer and birth defects or other reproductive harm.

Hazard Ratings:

	<u>Health</u>	<u>Fire</u>	<u>Reactivity</u>
HMIS	2	1	0

WHMIS Classification: The presence of N-Butyl Glycidyl Ether suggest this product may be slightly toxic Class D, Division 2, Subdivision B.

16. Other Information

The information and / or percentages in this MSDS are not intended for use in preparing specifications. Please contact Cast-Coat, Inc. before writing specifications.

All information appearing herein is based upon data obtained from the manufacturer and / or recognized technical sources. While the information is believed to be accurate, Cast-Coat makes no representations as to its accuracy or sufficiency. Conditions of use are beyond the control of Cast-Coat and therefore users are responsible to verify this data under their Own operating conditions to determine whether the product is suitable for their purposes.

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