

## MATERIAL SAFETY DATASHEET



One Omega Drive  
Stamford, CT 06907-0047  
omega.com®  
e-mail: info@omega.com

MSDS-0105  
OB-100 (Part B, Curing Agent)  
Rev. Date 01/08/09  
Supersedes: 11/04/08

## SECTION 11. TOXICOLOGICAL INFORMATION

## ACUTE

<b>Chemical Name</b>	<b>ORAL LD<sub>50</sub> (rat)</b>	<b>DERMAL LD<sub>50</sub> (rabbit)</b>
2, 4, 6-tris (dimethylaminomethyl) phenol	200 to 2000 mg/kg	200 to 2000 mg/kg

**EYE EFFECTS:** Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

**SKIN EFFECTS:** Contains materials that cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions that may be severe in certain individuals. Symptoms include rash, itching, hives, swelling.

## SECTION 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Do not flush to sewer.

## SECTION 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Dispose of container and unused contents in accordance with federal, state, and local requirements.

**EMPTY CONTAINER:** Do not re-use this container. Keep away from heat, flames or sparks. Do not cut, puncture or weld on or near this container.

## SECTION 14. TRANSPORTATION INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME:** Not restricted by DOT  
**ROAD AND RAIL (ADR/RID) - PROPER SHIPPING NAME:** Not restricted  
**AIR (ICAO/IATA) - SHIPPING NAME:** Aviation Regulated Liquid, N.O.S.  
**TECHNICAL NAME:** Mercaptan-terminated polymer  
**UN/NA NUMBER:** 3334 **PRIMARY HAZARD CLASS/DIVISION:** 9

## SECTION 15 - REGULATORY INFORMATION

## UNITED STATES TSCA (TOXIC SUBSTANCE CONTROL ACT)

**Chemical Name:** Phenol, [(dimethylamino) methyl]- **CAS:** 25338-55-0

## SECTION 16 - OTHER INFORMATION

**RELEVANT R-PHRASES:** R22: Harmful If swallowed. R36/38: Irritating to eyes and skin.  
**HMIS RATING:** Health 3, Flammability 1, Physical Hazard 0, Personal Protection C

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MSDS-0105  
OB-100 (Part A, Epoxy Resin)  
Rev. Date 11/04/08  
Supersedes: 03/14/06  
24 hour Emergency Response (Chemtel)  
1-800-255-3924 or International 1-813-248-0585

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT (TRADE) NAME:** OMEGABOND® 100 Cement (Part A, Epoxy Resin)

**CHEMICAL FAMILY:** Bisphenol A/Epichlorohydrin-Based Epoxy Resin

**SUPPLIER:** OMEGA Engineering, Inc.

**ADDRESS:** P. O. Box 4047  
Stamford, CT 06907

**TELEPHONE:** (203) 359-1660

## SECTION 2. HAZARDS IDENTIFICATION

## EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS:** May cause sensitization, Mild skin irritant, Can cause mild eye irritation, Can be harmful if swallowed.

## POTENTIAL HEALTH EFFECTS

**EYES:** Contact may cause eye irritation.

**SKIN:** May cause skin irritation. Allergic reactions are possible.

**INGESTION:** Small amounts (a tablespoonful) swallowed during normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.

## SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Eyes may become irritated, red or itchy.

**SKIN:** Skin may become itchy, red or irritated.

**INGESTION:** May cause vomiting.

**ACUTE TOXICITY:** Prolonged contact with this product can cause reddening, swelling, rash scaling or blistering. In those who have developed skin sensitization, these symptoms can develop as a result of contact with very small amount of the liquid material.

**CHRONIC EFFECTS:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis).

**SENSITIZATION:** May cause allergic skin reaction.

**HEALTH HAZARDS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

## COMMENTS:

Keep container closed when not in use

Keep away from heat and flame

Keep out of reach of children

Practice good housekeeping procedures

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS	Classification
Bisphenol A/epichlorohydrin Resin	< 95	25068-38-6	500-033-5	Xi,N; R36/38, R43, R51/53

(Full text of R-Phrases can be found under heading 16)



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#### SECTION 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

**INHALATION:** No specific treatment is necessary since this material is not likely to be hazardous by inhalation. If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if cough or other symptoms develop.

#### SECTION 5. FIRE FIGHTING MEASURES

**FLASHPOINT AND METHOD:** (220°F)

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or fine water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, aldehydes, amines, aniline, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

**FIRE FIGHTING PROCEDURES:** Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities are involved, evacuate area and fight fire from a safe distance.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with paper towels or other absorbent material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with Federal, State and local regulations.

**LARGE SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

**RELEASE NOTES:** Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### SECTION 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Minimize contact with unprotected skin and eyes and ensure that adequate ventilation is provided in the work area. Store material in a cool, dry place.

**HANDLING:** Keep container closed when not in use, avoid contact with eyes and prolonged or repeated contact with skin. Maintain good housekeeping practices.

**STORAGE:** Keep container closed when not in use, store in a cool dry place away from heat and flames. Keep out of the reach of children and do not re-use this container.



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#### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

##### EXPOSURE GUIDELINES

##### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

##### EXPOSURE LIMITS

Chemical Name	TWA	ACGIH TLV	
		ppm	mg/m3
2, 4, 6 tris (dimethylaminomethyl) phenol		[1]	[1]
Footnotes: 1. Not Established			

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield.

**SKIN:** Wear impervious gloves and appropriate protective clothing or equipment to prevent prolonged or repeated contact with skin. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using restroom facilities. Promptly remove contaminated clothing and launder thoroughly before reuse.

**RESPIRATORY:** Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation, especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 chemicals below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Maintain good housekeeping practices, minimize contact with skin and eyes, and provide appropriate ventilation.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid

**ODOR:** Pungent

**APPEARANCE:** Clear

**VAPOR PRESSURE:** <1mmHg at 25°C

**VAPOR DENSITY:** >1

**BOILING POINT:** Not Determined

**SOLUBILITY IN WATER:** Slight

**SPECIFIC GRAVITY:** 1.130 at 25°C

#### SECTION 10. STABILITY AND REACTIVITY

**STABILITY:** Stable under normal handling and storage conditions.

**POLYMERIZATION:** It will not vigorously polymerize, decompose, condense or not become self-reactive under conditions of shocks, pressure, or temperature. Uncontrolled mixing with resins may cause hazardous polymerization.

**CONDITIONS TO AVOID:** Contact with acidic, basic, or oxidizing materials. Avoid storage in open containers, exposure to open flame or uncontrolled heat, uncontrolled mixing or exposure to incompatible substances.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, aldehydes, amines, aniline, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.



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#### SECTION 4. FIRST AID MEASURES

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

**INGESTION:** If swallowed, do NOT induce vomiting. Give Victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

#### SECTION 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, or fine water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of carbon, aldehydes, amines, aniline, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.

**FIRE FIGHTING PROCEDURES:** Firefighters/rescue personnel should wear positive pressure self-contained breathing apparatus and full protective equipment. Cool exposed containers with water to prevent pressure buildup. If large quantities are involved, evacuate area and fight fire from a safe distance.

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Activate available exhaust ventilation equipment in the immediate spill area. Wipe up or absorb spilled material with paper towels or other absorbent material. Wash area with soapy water to remove residue. Collect absorbed material and water rinses in appropriate containers. Dispose of in accordance with Federal, State and local regulations.

**LARGE SPILL:** Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including ignitable vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth and gravel, etc. as necessary and place in closed containers for disposal.

**RELEASE NOTES:** Spill response operations must be conducted in accordance with the provisions of OSHA 29 CFR 1910.120. Review the entire MSDS before proceeding with spill response.

#### SECTION 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Minimize contact with unprotected skin and eyes and ensure that adequate ventilation is provided in the work area. Store material in a cool, dry place.

**HANDLING:** Keep container closed when not in use, avoid contact with eyes and prolonged or repeated contact with skin. Maintain good housekeeping practices.

**STORAGE:** Keep container closed when not in use, store in a cool dry place away from heat and flames. Keep out of the reach of children and do not re-use this container.



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#### SECTION 8. EXPOSURES CONTROLS/PERSONAL PROTECTION

##### EXPOSURE GUIDELINES

##### OSHA HAZARDOUS COMPONENTS (29 CFR1910~1200)

Chemical Name	TWA	OSHA PEL		ACGIH TLV	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Bisphenol A/epichlorohydrin Resin	STEL	[1]	[1]	[1]	[1]
Footnotes: 1. Not Established		[1]	[1]	[1]	[1]

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Wear safety glasses with side shields (or goggles) and a face shield.

**SKIN:** Wear impervious gloves and appropriate protective clothing or equipment to prevent prolonged or repeated contact with skin. Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using restroom facilities. Promptly remove contaminated clothing and launder thoroughly before reuse.

**RESPIRATORY:** Provide effective mechanical exhaust ventilation to draw vapors, mists or fumes generated during processing away from the worker and prevent routine inhalation, especially during elevated temperature processing. Ventilation must be sufficient to maintain airborne levels of Section 2 chemicals below their PEL/TLV values. Use an appropriate, properly fitted respirator if exposures exceed PEL/TLV values. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**WORK HYGIENIC PRACTICES:** Maintain good housekeeping practices, minimize contact with skin and eyes, and provide appropriate ventilation.

**OTHER USE PRECAUTIONS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Liquid **APPEARANCE:** Clear **COLOR:** Amber

**FLASH POINT AND METHOD:** (220°F) **SOLUBILITY IN WATER:** Slight

**SPECIFIC GRAVITY:** 1.170 gm/cm<sup>3</sup>

#### SECTION 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Stable under normal handling and storage conditions.

**POLYMERIZATION:** It will not vigorously polymerize, decompose, condense or not become self-reactive under conditions of shocks, pressure, or temperature. Uncontrolled mixing with curing agents may cause hazardous polymerization.

**CONDITIONS TO AVOID:** Contact with acidic, basic, or oxidizing materials. Avoid storage in open containers, exposure to open flame or uncontrolled heat, uncontrolled mixing or exposure to incompatible substances.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of carbon, aldehydes, amines, aniline, acids and other organic substances may be formed during combustion. The chemical nature and quantity of decomposition by-products will vary widely depending on the conditions of combustion.



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## SECTION 11. TOXICOLOGICAL INFORMATION

<b>ACUTE</b> <b>Chemical Name</b> Bisphenol A/epichlorohydrin Resin	<b>ORAL LD<sub>50</sub></b> <b>(rat)</b> >2000 mg/kg	<b>DERMAL</b> <b>LD<sub>50</sub> (rabbit)</b> >2000 mg/kg
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**EYE EFFECTS:** Contains materials irritating to the eyes. Symptoms may include blurred vision, burning sensation and tearing.

**SKIN EFFECTS:** Contains materials that cause moderate skin irritation. Prolonged or repeated exposure to the liquid may exert a defatting or drying action on the skin, possibly resulting in dermatitis. This product may cause skin sensitization/allergic skin reactions that may be severe in certain individuals. Symptoms include rash, itching, hives, swelling.

## SECTION 12. ECOLOGICAL PROTECTION

**ENVIRONMENTAL DATA:** Do not flush to sewer.

## SECTION 13. DISPOSAL CONSIDERATION

**DISPOSAL METHOD:** Dispose of container and unused contents in accordance with federal, state, and local requirements.

**EMPTY CONTAINER:** Do not re-use this container. Keep away from heat, flames or sparks. Do not cut, puncture or weld on or near this container.

## SECTION 14. TRANSPORT INFORMATION

**DOT (DEPARTMENT OF TRANSPORTATION) - PROPER SHIPPING NAME:** Not restricted by DOT

**ROAD AND RAIL (ADR/RID) - PROPER SHIPPING NAME:** Not restricted.

**AIR (ICAO/IATA) - SHIPPING NAME:** Not restricted

**VESSEL (IMO/IMDG) - SHIPPING NAME:** Not restricted

## SECTION 15. REGULATORY INFORMATION

**UNITED STATES**  
**SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)**  
**ACUTE:** Yes **CHRONIC:** Yes

**CALIFORNIA PROPOSITION 65:** Phenyl Glycidyl Ether (CAS# 122-60-1) is present at <6 ppm. This material is known to the State of California to cause cancer.

## SECTION 16. OTHER INFORMATION

**RELEVANT R-PHRASES:** **R36/38:** Irritating to eyes and skin. **R43:** May cause sensitization by skin contact. **R51/53:** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **REVISION SUMMARY:** New MSDS

**HMIS RATING:** Health 2, Flammability 1, Physical Hazard 0, Personal Protection C



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24 hour Emergency Response (Chemtel)  
(800) 255-3924 or Intl. (813) 248-0585

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT (TRADE) NAME:** OMEGABOND® 100 Cement (Part B. Curing Agent)

**CHEMICAL FAMILY:** Epoxy Curing Agent

**SUPPLIER:** OMEGA Engineering, Inc.  
P. O. Box 4047  
Stamford, CT 06907

**TELEPHONE:** (203) 359-1660

## SECTION 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW**  
**IMMEDIATE CONCERNS:** Corrosive. Will cause eye burns and permanent tissue damage.

**POTENTIAL HEALTH EFFECTS**  
**EYES:** Corrosive to the eyes and may cause severe damage including blindness.

**SKIN:** Causes skin burns, irritation and possible allergic reaction.

**INGESTION:** Can burn mouth, throat and stomach.

**INHALATION:** Prolonged or repeated inhalation may cause lung damage and/or central nervous system disturbances.

**SIGNS AND SYMPTOMS OF OVEREXPOSURE**

**EYES:** Eyes may become irritated, red or itchy.

**SKIN:** Skin may become itchy, red or irritated.

**INGESTION:** Ingestion of this material can cause mouth, throat, esophageal, and gastrointestinal tract irritation.

**ACUTE TOXICITY:** Symptoms of overexposure Include: tearing of eyes, burning sensation in the throat, cough, chest discomfort or skin burning.

**CHRONIC EFFECTS:** Corrosive and may cause severe and permanent damage to mouth, throat and stomach.

**SENSITIZATION:** May cause allergic skin reaction.

**HEALTH HAZARDS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**COMMENTS:**

Keep container closed when not in use  
Keep away from heat and flame  
Keep out of reach of children  
Practice good housekeeping procedures

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS	Classification
Mercaptan Terminated Polymer	< 95	Proprietary	Proprietary	
2, 4, 6-tris (dimethylaminomethyl) phenol	< 3	90-72-2	202-013-9	Xn; R22, R36/38
Phenol, [(dimethylamino) methyl]- (Full text of R-Phrases can be found under heading 16)	< 3	25338-55-0		