



One Omega Drive  
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MSDS-0145L  
OB-500L  
Rev. Date 06/19/08  
Supersedes: 10/20/05

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** OMEGABOND® 500 Liquid  
**SUPPLIER:** OMEGA ENGINEERING, INC.  
**ADDRESS:** PO BOX 4047  
STAMFORD, CT 06907  
**TELEPHONE:** (203) 359-1660  
**ITEM NUMBER:** OB-500  
**ITEM DESCRIPTION:** Refractory Coating (Liquid)  
**PRODUCT DESCRIPTION:** Refractory Coating (Liquid)  
**CHEMICAL FAMILY:** Sodium Silicate Solution; aNa<sub>2</sub>O·bSiO<sub>2</sub>  
**REVISION DATE:** 06/19/08  
**PRODUCT USE:** High temperature bonding/adhesive compounds

### SECTION 2. COMPOSITION AND DATA ON COMPONENTS

COMPONENT	CAS #	ACGIH TLV	OSHA PEL	% WT
SODIUM SILICATE	1344-09-8	NE	NE	<50%

**NOTES:** Exposure values shown for guidance only. Please follow applicable regulations.

### SECTION 3. HAZARDS IDENTIFICATION

**HMS RATING:**  
Health 2  
Flammability 0  
Reactivity 0  
Personal protection B

**THRESHOLD LIMIT VALUE:** NE

**EFFECTS OF OVEREXPOSURE:** Causes irritation to skin, eyes, respiratory tract, esophagus, and stomach. No known chronic hazards.

**INHALATION:** Causes sneezing, and burning or itching in nose and throat

**EYE EXPOSURE:** Pain, redness, and tearing

**SKIN EXPOSURE:** Itching or burning



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#### SECTION 4. FIRST AID MEASURES

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**EYE CONTACT:** Check for and remove all contact lenses. Flush eyes immediately with water or physiological saline or at least 15 minutes while lifting upper and lower lids. Do not use eye ointment. Seek medical attention.

**INGESTION:** If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately. Never give anything by mouth to an unconscious person.

**INHALATION:** Not expected to be a problem.

**SKIN CONTACT:** Wash contact area thoroughly with soap and water. Remove contaminated clothing. Launder before reuse. Seek medical attention if erythema develops.

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#### SECTION 5. FIRE FIGHTING MEASURES

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**AUTO IGNITION TEMPERATURE:** NA

**EXPLOSION DATA** - Not sensitive to mechanical impact or static discharge.

**EXTINGUISHING MEDIA:** NA

**NOTE:** Many dusts and aerosols may exhibit explosive characteristics if ignited by static discharge or spark. Exercise care to avoid causing dusting or misting operations such as grinding or drilling.

**FIRE AND EXPLOSION HAZARDS:** NA

**FIRE FIGHTING PROCEDURES:** NA

**FLAMMABILITY** - Not flammable in presence of open flame, sparks, excessive heat and static discharge.

**FLAMMABLE LIMITS LEL:** NA

**FLAMMABLE LIMITS UEL:** NA

**FLASHPOINT:** NA



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#### SECTION 15. REGULATORY INFORMATION (CONT'D)

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##### CANADA

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by CPR.

##### CANADA

**DSL:** Components included on inventory.

##### WHMIS HAZARD CLASS (ES):

Not controlled

**WHMIS TRADE SECRET REGISTRY NUMBER(S):** Not Applicable

##### WHMIS SYMBOLS:

Stylized T

##### EUROPEAN ECONOMIC COMMUNITY (EEC)

##### EINECS Inventory:

Components included on inventory

##### EEC SYMBOLS(S):

Irritant

**EEC RISK<sup>®</sup> PHRASES:** Irritating to eyes, respiratory system, and skin

##### EEC SAFETY PHRASES

Avoid contact with skin and eye

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
Keep container tightly closed and dry

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#### SECTION 16. OTHER INFORMATION

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This MSDS contains information and recommendations based upon our present knowledge and data believed to be reliable. All data shown here are subject to reasonable variation and are supplied as an accommodation to the buyer. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This MSDS applies only to the product in its "as manufactured" state, since the application to which the product is subjected may change its characteristics. The buyer is responsible for determining the safety, toxicity, and suitability of the product under the conditions of their use of the product. Buyers also have the responsibility for insuring that the MSDS is available to their employees, product users, and handlers.

**NAV** = Not available    **NE** = Not established    **NA** = Not Applicable    **ND** = Not Determined



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### SECTION 13. DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL:** Comply with federal, state and local regulations. If approved, flush with water to chemical sewer. For large quantities, neutralize with dilute acid and landfill solids or flush neutral liquid to sewer with plenty of water.

**EUROPEAN COMMUNITY WASTE DISPOSAL KEY:** Not known

**UNCLEANED PACKAGINGS:** Disposal must be made according to official regulations.

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### SECTION 14. TRANSPORT INFORMATION

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<b>DOT I.D. NO.:</b>	NOT REGULATED
<b>DOT SHIPPING NAME:</b>	NA
<b>DOT HAZARD CLASS:</b>	NOT REGULATED
<b>DOT LABEL:</b>	NONE
<b>OTHER:</b>	NA
<b>NMF CLASSIFICATION:</b>	HIGH TEMPERATURE BONDING MORTAR

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### SECTION 15. REGULATORY INFORMATION

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#### U.S. FEDERAL REGULATIONS:

**TSCA Status:** Components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

#### SARA TITLE III:

**Section 302 Extremely Hazardous Substances:** None above detection limits

**Section 311/312 (40 CFR 370) Hazardous Categories:** Irritant

There are no listed chemicals above detection limits in this compound.

**CERCLA:** None

**CALIFORNIA:** Proposition 65 substitutes (components) known to the State of California to cause cancer and reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Act of 1986".

It has not been determined and cannot be ascertained that this product would not expose users to the listed chemicals at the very low levels prescribed in the regulations. Therefore, it is the user's responsibility to determine if the percent of hazardous/carcinogenic ingredients listed elsewhere in the MSDS comply with the State of California regulations.



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### SECTION 6. ACCIDENTAL RELEASE MEASURES

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**CLEAN-UP PROCEDURE:** Spill area may become slippery; use care to avoid falls. Flush spill area with plenty of water. For spill quantities greater than 100 gallons: isolate, dike and store discharge material, if possible. Collect with dry sand, clay or other absorbent. Flush cleaned areas with water. Observe environmental regulations. Wear PPE - gloves, rubber boots, and safety glasses.

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### SECTION 7. HANDLING AND STORAGE

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Avoid contact with eyes, skin, and clothing.

For industrial use only!

Do not take internally.

May cause irritation.

Wear chemical splash goggles, gloves, and protective clothing.

Wash thoroughly after handling.

Store in a cool, dry place.

Keep container closed when not in use.



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## SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

See Section 2 for the components that have limit values that require monitoring at the workplace.

**EYE PROTECTION:** Chemical resistant goggles and/or face shield.

**RESPIRATORY PROTECTION:** Use NIOSH approved mist respirator where spray occurs. For emergency, a self-contained breathing apparatus or a full-face respirator is recommended. If TLV of any component is exceeded, use appropriate respiratory protection or ventilate in accordance with OSHA Regulation 29 CFR Part 1910.

**SKIN PROTECTION:** Suitable protective gloves (neoprene, butyl rubber, or FKM). Clothing should be clean, long-sleeved workclothes. Synthetic apron. Boots. Wash thoroughly before eating, smoking, applying cosmetics, etc. Thoroughly launder work clothes before reuse. Safety shower nearby.

**VENTILATION:** Normal ventilation for good working conditions should be used.

**OTHER PRECAUTIONS:** Safety shower and eyewash station should be within direct access. Keep contained closed. Dries to form a glassy film that can cut skin. Spills are very slippery. Can etch glass.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**% VOLATILE BY VOLUME:** NA  
**APPEARANCE AND ODOR:** Hazy to clear, odorless liquid.  
**BOILING POINT:** 100°C  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not available  
**EVAPORATION RATE:** (N-Butyl Acetate=1) Less than 1  
**MELTING POINT:** 32°F (0°C)  
**ODOR THRESHOLD:** Not available  
**PH:** 11.7  
**SPECIFIC GRAVITY:** 1.32  
**SOLUBILITY IN WATER:** 100%  
**VAPOR DENSITY:** Vapor is water  
**VAPOR PRESSURE:** Vapor is water

## SECTION 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Not known

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** NA

**INCOMPATIBILITY:** (Materials to avoid) Acids, salts, or alcohols may cause gel formation (non-hazardous)

**STABILITY:** Stable under ordinary conditions of use and storage.



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## SECTION 11. TOXICOLOGICAL INFORMATION

**ACGIH:** NO

**IARC:** NO

**EFFECTS OF ACUTE EXPOSURE:** Refer to Section 3.

**EFFECTS OF CHRONIC EXPOSURE:** Refer to Section 3.

**MUTAGENIC EFFECTS:** If not addressed in Section 3, the data is not available.

**REPRODUCTIVE TOXICITY:** If not addressed in Section 3, the data is not available.

**TERATOGENIC EFFECTS:** If not addressed in Section 3, the data is not available.

**NAME(S) OF TOXICOLOGICALLY SYNERGISTIC PRODUCTS AND EFFECTS:** If not addressed in Section 3, data is not available.

**LC50/LD50:** There is no data available.

**ADDITIONAL INFORMATION:** Sodium silicate solution has no known chronic hazard.

**EYE IRRITANT:** Yes

**INGESTION IRRITANT:** Yes

**INHALATION IRRITANT:** Yes

**RESPIRATORY SENSITIZER:** No

**SKIN IRRITANT:** Yes

## SECTION 12. ECOLOGICAL INFORMATION

**AQUATIC TOXICITY:** Sodium silicate solution has low toxicity (96-hr LD50=500-5,000mg/liter). The 96 hr TLM in mosquitofish is 2,320mg/liter. High pH (alkalinity) of undiluted material is harmful to aquatic life.