

# SAFETY DATA SHEET

Product: 503  
Revision Date: 6/01/2015

## 1. MATERIAL IDENTIFICATION

**Product Name:** Ceramabond 503

**Product Description:** White, Viscous, and Odorless Paste  
**Product Use:** High Temperature Adhesive/Coating System

**Manufacturer:** Aremco Products, Inc.  
707-B Executive Blvd.  
Valley Cottage, NY 10989

**Telephone:** 845-268-0039  
**Emergency Phone:** 845-268-0039 or Infotrac (24/7) 800-535-5053

## 2. HAZARDS IDENTIFICATION

**GHS Classification:**  
Oral, Acute Category 4  
Skin Corrosion/Irritation Category 1C  
Serious Eye Damage Category 1

**GHS Label Elements:**



**GHS Signal Word:**  
Danger

**GHS Hazard Determining Components:**  
Monoaluminum Phosphate  
Aluminum Oxide

**GHS Hazard Statements for Health Hazards:**  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

**GHS Precautionary Statements - Prevention:**  
P260 Do not breathe mist/vapors/spray.  
P264 Wash hands thoroughly after handling  
P270 Do not eat, drink or smoke when using this product.  
P280 Wear protective gloves.

**GHS Precautionary Statements - Response:**  
P304 + P340 IF INHALED: Remove to fresh air and keep at rest comfortable for breathing  
P303 + P361 + P353 IF ON SKIN: Remove all contaminated clothing and rinse skin with water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water and remove contact lenses if present.  
P301 + P312 IF SWALLOWED: Immediately call poison center or physician if feeling unwell.  
P330 Rinse mouth.  
P331 Do not induce vomiting.  
P363 Wash contaminated clothing before reuse.

**GHS Storage/Disposal:**  
P405 Store locked up.  
P501 Dispose in accordance with local, regional, national or international regulations.

### 3. COMPOSITION

Chemical Name	CAS No.	EC No.	Concentration	GHS Product Identifier
Aluminum Oxide	1344-28-1	215-691-6	50.0-70.0%	None
Monoaluminum Phosphate	13530-50-2	236-875-2	10.0-25.0%	H302 Acute toxicity, Oral, Cat 4 H314 Skin Corrosion/Irritation, Cat 1C H318 Serious Eye Damage/Eye Irritation, Cat 1
Water	7732-18-5	231-791-2	20.0-35.0%	None

**Note**

This product is a mixture and all powders are encapsulated.

### 4. FIRST AID MEASURES

<b>After Eye Contact:</b>	Hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek immediate medical attention, preferably with an ophthalmologist.
<b>After Skin Contact:</b>	Immediately wipe excess material off skin with a dry cloth then wash with soap and water for at least 5 minutes.
<b>After Inhalation:</b>	In case of inhalation due to spray mist, machining dust and dried particulate, remove source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR).
<b>After Ingestion:</b>	If swallowed, do not induce vomiting. If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.
<b>Medical Conditions Possibly Aggravated by Exposure:</b>	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravate existing skin disease.

### 5. FIRE FIGHTING MEASURES

<b>Flash Point:</b>	Not applicable
<b>Flammable Limits:</b>	This material is non-combustible.
<b>Extinguishing Media:</b>	This material is compatible with all extinguishing media.
<b>Special Fire Fighting Procedures:</b>	Firefighters should wear NIOSH/MSHA approved positive pressure breathing apparatus with full face-piece and full chemical resistant protective clothing. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later.
<b>Unusual Fire and Explosion Hazards:</b>	This material is non-combustible.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Protection:</b>	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.
<b>Spill Cleanup:</b>	Mop up and neutralize liquid with soda ash. Exercise caution during neutralization as heat may be generated. Absorb or cover with dry earth, sand or other non-combustible material and transfer containers. Dispose in accordance with federal, state and local regulations or permits. Flush area with water to complete cleanup.

### 7. HANDLING AND STORAGE

<b>Handling:</b>	Use only with adequate ventilation. Wear appropriate personal protective equipment and avoid contact with eyes, skin and clothing. Avoid breathing spray mist. Keep container closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills.
<b>Storage:</b>	Store in an area that is cool, dry, well ventilated, away from combustible material, and away from ignition sources. Keep containers closed. Store in clean plastic or stainless steel containers.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	CAS No.	EC No.	TLV (mg/m <sup>3</sup> )	PEL (mg/m <sup>3</sup> )
Aluminum Oxide	1344-28-1	215-691-6	10	15
Monoaluminum Phosphate	13530-50-2	236-875-2	2	No available information
Water	7732-18-5	NA	No available information	No available information

<b>Engineering Controls:</b>	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be accessible.
<b>Respiratory Protection:</b>	This product is not considered respirable in either the liquid or cured forms. However, if the cured product is polished, ground or chipped during processing, handling or use, powders may be released as airborne respirable particles. In these instances, appropriate personal protection equipment and local ventilation controls must be employed. If exposure limits are exceeded and local ventilation is unavailable, a supplied-air respirator or a self-contained NIOSH-approved dust and mist respirator is required.
<b>Skin Protection:</b>	Wear body-covering protective clothing and gloves.
<b>Eye Protection:</b>	Wear chemical goggles.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical here represent typical properties of this product. Contact Technical Sales for exact specifications.

<b>Appearance:</b>	Viscous Paste
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>pH:</b>	2.5
<b>Specific Gravity, g/cc</b>	2.35-2.55
<b>Water Solubility:</b>	Soluble
<b>Melting Point Range:</b>	No available information
<b>Boiling Point Range:</b>	No available information
<b>Vapor Pressure:</b>	No available information
<b>Vapor Density (air=1):</b>	No available information
<b>VOC Content, g/l:</b>	0.00
<b>Viscosity:</b>	50,000-90,000 cP
<b>Decomposition temperature:</b>	No available information
<b>Auto-ignition temperature</b>	No available information
<b>Partition coefficient:</b>	No available information
<b>Flash point:</b>	No available information
<b>Flammability:</b>	No available information
<b>Evaporation rate:</b>	No available information

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	This material is stable under all conditions of use and storage.
<b>Conditions to Avoid:</b>	Acidic in nature and reacts with bases such as carbonates, oxides and hydroxides of alkali metals to form insoluble hydrates of aluminum phosphate.
<b>Hazardous Polymerization:</b>	Will not occur.
<b>Hazardous Decomposition Materials:</b>	Oxides of phosphorous (under fire conditions).

## 11. TOXICOLOGICAL INFORMATION

<b>GHS Properties</b>	<b>Classification</b>
Acute Toxicity	Oral, Cat 4
Aspiration Hazard	Classification criteria not met
Carcinogenicity	Classification criteria not met
Germ Cell Mutagenicity	Classification criteria not met
Skin Corrosion/Irritation	Skin, Cat 1C
Skin Sensitization	Classification criteria not met
STOT-RE	Classification criteria not met
STOT-SE	Classification criteria not met
Toxicity for Reproduction	Classification criteria not met
Respiratory Sensitization	Classification criteria not met
Serious Eye Damage/ Irritation	Serious Eye Damage, Cat 1
<b>Routes of Entry/Exposure:</b>	Inhalation, Skin, Eye, Ingestion.
<b>Medical Conditions Aggravated:</b>	Disorders of the lungs. Skin/Dermal.

## Potential Health Effects

### Acute Toxicity:

Ingestion: LC50, Rat, > 1,000 mg/kg, < 4,640 mg/kg  
Harmful if ingested. May cause burns to mouth and esophagus, nausea, vomiting, and diarrhea.

Inhalation: Mist is irritating to the respiratory tract.

Skin: Corrosive. Severe irritation, irreversible, burns

Eye: Corrosive. Severe irritation. Can cause permanent damage to the cornea, blindness.

**Chronic Toxicity Data:** No data available

**Carcinogenic Effects:** The product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Not tested

**Persistence & Degradability:** Not tested

**Bioaccumulative Potential:** Not tested

**Mobility in Soil:** Not tested

**Ecological Fate:** Not tested

## 13. DISPOSAL CONSIDERATIONS

**Disposal Method:** Dispose in accordance with federal, state and local regulations and permits.

## 14. TRANSPORTATION INFORMATION

### DOT/IATA

**Proper Shipping Name:** Corrosive Liquid, Acidic, Inorganic, N.O.S.

**Technical Shipping Name:** Aluminum Phosphate Solution

**Hazard Class:** 8

**ID Number:** UN3264

**Packing Group:** III

**Labels:** Corrosive

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**CERCLA:** Reportable quantity is  $\geq$  100 lbs.

**TSCA:** All ingredients of this material are listed on the TSCA inventory.

### **SARA Title III**

**Sections 302, 304, 313:** This product does not contain any substances reportable under these sections.

### **Sections 311, 312:**

<u>Hazard Classes</u>	<u>Yes/No</u>
Fire Hazard	No
Reactivity Hazard	No
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No

<u>International Inventory</u>	<u>Status</u>
Canada (DSL)	Yes
Europe (EINECS/ELINCS)	Yes
Australia (AICS)	Yes
Japan (MITI)	Yes
South Korea (KECL)	Yes

## 16. OTHER INFORMATION

**Risk & Safety Phrases**

R34 Causes burns.  
 S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

<b>NFPA Ratings (scale 0 – 4)</b>	Health, 1 Flammability, 0 Reactivity, 0 Personal Protection, C	
<b>HMIS Ratings (scale 0 – 4)</b>	Health, 1 Flammability, 0 Reactivity, 0 Personal Protection, C	

### Key Legend Information

<b>ACGIH</b>	American Conference of Governmental Industrial Hygienists
<b>ARD</b>	International Agency for Research on Cancer
<b>CAS</b>	Chemical Abstract Service
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation & Liability Act
<b>DSL</b>	Domestic Substance List
<b>EC</b>	European Commission
<b>HMIS</b>	Hazardous Materials Identification System
<b>IARC</b>	International Agency for Research on Cancer
<b>ND</b>	Not Determined
<b>NE</b>	Not Established
<b>NFPA</b>	National Fire Protection Association
<b>NIOSH</b>	National Institute for Occupational Safety & Health
<b>NTP</b>	National Toxicology Program
<b>OSHA</b>	Occupational Safety and Health Administration
<b>PEL</b>	Permissible Exposure Limit
<b>RE</b>	Repeat Exposure
<b>SARA</b>	Superfund Amendments & Reauthorization Act
<b>SARA Title III</b>	Emergency Planning & Community Right to Know Act
<b>SARA Section 302</b>	Extremely Hazardous Substances
<b>SARA Section 304</b>	Emergency Release
<b>SARA Section 311</b>	MSDS/List of Chemicals & Hazardous Inventory
<b>SARA Section 312</b>	Emergency & Hazardous Inventory
<b>SARA Section 313</b>	Toxic Chemicals & Release Reporting
<b>SE</b>	Single Exposure
<b>STEL</b>	Short Term Exposure Limit
<b>STOT</b>	Specific Target Organ Toxicity
<b>TLV</b>	Threshold Limit Value
<b>TWA</b>	Time Weighted Average

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