

SAFETY DATA SHEET

Product: 618-N
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Ceramabond 618-N

Product Description: Off-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 Component:
Monoaluminum Phosphate
Fused Silica

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
Silicon Dioxide	7631-86-9	231-545-4	45.0-65.0%	None
Silica, Crystalline	14808-60-7	238-878-4	< 0.75%	H319 Serious Eye Damage/Eye Irritation, Cat 2 H335 STOT, SE; Respiratory Tract Irritation, Cat 3 H373 STOT, RE; Respiratory Tract Irritation, Cat 3
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	15.0-30.0%	None

Note

This product is a mixture and all powders are encapsulated.

4. FIRST AID MEASURES

After Eye Contact:	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.
After Skin Contact:	Immediately wipe excess material off skin with a dry cloth then wash with soap and water for at least 5 minutes.
After Inhalation:	In case of inhalation due to spray mist, machining dust or dried particulate, remove source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR).
After Ingestion:	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.
Medical Conditions Possibly Aggravated by Exposure:	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

Flash Point:	Not applicable
Flammable Limits:	This material is non-combustible.
Extinguishing Media:	This material is compatible with all extinguishing media.
Special Fire Fighting Procedures:	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.
Unusual Fire and Explosion Hazards:	This material is non-combustible.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection:	Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. Use NIOSH approved respirator where mist occurs.
Spill Cleanup:	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

Handling:	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.
Storage:	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 ³)	PEL (mg/m ³)
Silicon Dioxide	7631-86-91	231-545-4	10	NE
Silicon Dioxide, Crystalline	14808-60-7	238-878-4	0.1	0.1
Monoaluminum Phosphate	13530-50-2	236-875-2	2	No available information
Water	7732-18-5	NA	NA	NA

Engineering Controls:	Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be accessible.
Respiratory Protection:	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.
Skin Protection:	Wear body-covering protective clothing and gloves.
Eye Protection:	Wear chemical goggles.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance:	Viscous Liquid
Color:	Off-White
Odor:	Odorless
pH:	< 2.5
Specific Gravity, g/cc	1.80-1.90
Water Solubility:	Soluble
Melting Point Range:	No available information
Boiling Point Range:	No available information
Vapor Pressure:	No available information
Vapor Density (air=1):	No available information
VOC Content, g/l:	0.00
Viscosity:	40,000-60,000 cP
Decomposition temperature:	No available information
Auto-ignition temperature	No available information
Partition coefficient:	No available information
Flash point:	No available information
Flammability:	No available information
Evaporation rate:	No available information

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Component: CAS No. 13530-50-2, Monoaluminum Phosphate

GHS Properties

Acute Toxicity
Aspiration Hazard
Carcinogenicity
Germ Cell Mutagenicity
Skin Corrosion/Irritation
Skin Sensitization
STOT-RE
STOT-SE
Toxicity for Reproduction
Respiratory Sensitization
Serious Eye Damage/ Irritation

Classification

Oral, Cat 4
Classification criteria not met
Classification criteria not met
Classification criteria not met
Skin, Cat 1C
Classification criteria not met
Classification criteria not met
Classification criteria not met
Classification criteria not met
Classification criteria not met
Classification criteria not met
Serious Eye Damage, Cat 1

Routes of Entry/Exposure:	Inhalation, Skin, Eye, Ingestion.
Medical Conditions Aggravated:	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

Component: CAS No. 14808-60-7, Crystalline Silica

Acute Toxicity: No data available

Chronic Hazards: This product contains trace levels of crystalline silica; once inhaled, cristobalite can remain in the lungs causing scarring, stiffening and difficulty breathing. The most common type of silicosis develops following repeated inhalation over time. Repeated inhalation of crystalline silica can also increase the risks of developing respiratory cancer. Animal studies indicate that fused silica may cause lung fibrosis. Avoid dust creation. Do not inhale dusts from this product. Do not use compressed air or dry sweeping to remove dusts from the work area. Use wet clean-up methods to remove dusts. IARC and NTP classify respirable crystalline silica as a confirmed or known human carcinogen. Although OSHA has not promulgated a specific standard for crystalline silica, materials that contain $\geq 0.1\%$ crystalline silica should be treated as a confirmed carcinogen for hazard communication purposes.

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 ≥ 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.
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NFPA Ratings (scale 0 – 4)	Health, 1 Flammability, 0 Reactivity, 0 Personal Protection, C	
HMIS Ratings (scale 0 – 4)	Health, 1 Flammability, 0 Reactivity, 0 Personal Protection, C	

Key Legend Information

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

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