SAFETY DATA SHEET

Product: 669
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Graphi-Bond 669

Product Description: Black, Odorless Paste

Product Use: High Temperature Graphite Adhesive

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:

Eye Irritation Category 2A Skin Irritation Category 2

GHS Symbol:



GHS Signal Word:

Warning

GHS Hazard Determining Components:

Silicate Solution Graphite

GHS Hazard Statements for Health Hazards:

H303 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.

GHS Precautionary Statements - Prevention:

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves. Wear eye protection.

GHS Precautionary Statements - Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P332 + P313 If skin irritation occurs: Get medical advice/attention.

P305 + P351 + P338 IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.

P312 IF SWALLOWED: Call a poison center or doctor if you feel unwell

P362 Take off contaminated clothing and wash before reuse.

GHS Storage/Disposal:

P501 Dispose in accordance with local, regional, national or international regulations

3. COMPOSITION

Chemical	CAS No.	EC No.	Concentration	GHS Product Identifier
Silicate Solution	1312-769-1	215-687-4	20.0-30.0%	H302 Acute Toxicity, Oral, Cat 4 H315 Skin Corrosion/Irritation, Cat 2 H319 Eye Damage/Eye Irritation, Cat 2A H335 STOT, SE; Respiratory Tract Irritation, Cat 3
Graphite	7782-42-5	231-955-3	20.0-40.0%	H319 Serious Eye Damage/Irritation, Cat 2A H335 STOT, SE; Respiratory Tract Irritation, Cat 3
Water	7732-18-5	NA	30.0-40.0 %	N/A

Note:

This product is a liquid 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

Inhalation of product may aggravate existing chromic respiratory problems such as asthma, emphysema or

Aggravated by Exposure: 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, then discharge to sewer in accordance with federal, state and local regulations or

permits. Flush area with water to complete cleanup. Exercise caution during neutralization as heat may be

generated.

7. HANDLING AND STORAGE

Handling: 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	CAS No.	EC No.	TLV (mg/m ³)	PEL (mg/m³)
Silicate Solution	1312-76-1	215-687-4	No available information	No available information
Graphite	7782-42-5	231-955-3	2	2
Water	7732-18-5	N/A	No available information	No available information

Engineering Controls: Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within

direct access.

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 Paste

Color: Black

Odor Threshold: No available information

Odor: Odorless pH: 11.0-11.5 Specific Gravity, g/cc 1.40-1.50 Water Solubility: Soluble Melting Point: Not applicable Boiling Point: 100 °C Vapor Pressure: Not applicable No data Vapor Density (air=1): VOC Content: 0.00 lbs/gal 20,000-40,000 cP Viscosity: **Decomposition Temperature:** Not applicable Auto-ignition Temperature Not applicable Partition Coefficient: No data Flash Point: Not applicable Flammability: Not applicable Evaporation Rate: Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under all conditions of use and storage.

Conditions to Avoid: Prolonged contact with aluminum, brass, copper, lead, and zinc may produce flammable hydrogen gas.

Materials to Avoid: Gels and heats when mixed with acid. May react with ammonium salts resulting in evolution of ammonia gas.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: Component: CAS No. 1344-09-8, Silicate Solution

LD50 Oral, 1153 mg/kg (Rat) LD50, Inhalation, No Data

LD50, Dermal, 4640 mg/kg (Rabbit)

Skin Corrosion/Irritation:Irritating to skinSerious Eye Damage/Irritation:Irritating to eyesSensitization:Not sensitizing

Mutagenicity: No data

Carcinogenicity: This product is not listed by IARC, NTP, OSHA, or ACGIH as a known or suspected carcinogen.

Reproductive Toxicity: No data

12. ECOLOGICAL INFORMATION

Ecotoxity:This material is believed to be practically non-toxic to aquatic life. **Biodegradation:**This material is inorganic and not subject to biodegradation. **Persistence:** this material is believed to persist in the environment.

Bioconcentration: This material is not expected to bioconcentrate in organisms.

Physical/Chemical: Sinks and mixes with water. Only water will evaporate from this material.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION INFORMATION

DOT UN Status: The material is not a regulated hazardous material for transportation.

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA: No CERCLA reportable quantity has been established for this material.

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:

Hazard Classes	Yes/No
Fire Hazard	No
Reactivity Hazard	No
Pressure Hazard	No
Immediate Hazard	Yes
Delayed Hazard	No
International Inventory	Status
Canada (DSL)	Yes
Europe (EINECS/ELINCS)	Yes
Australia (AICS)	Yes
Japan (MITI)	Yes
South Korea (KECL)	Yes

16. OTHER INFORMATION

NFPA Ratings (scale 0 – 4)	Health, 1 Flammability, 0 Reactivity, 0 Personal Protection, C	100
HMIS Ratings (scale 0 – 4)	Health, 1 Flammability, 0 Reactivity, 0 Personal Protection, C	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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