SAFETY DATA SHEET

Product: 613
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Aremco-Seal 613
Product Description: Light Gray, Odorless Liquid
Product Use: High Temperature Glass Sealer
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 Signal Word: Warning

GHS Hazard Determining Components:
Frits, Ceramic (Non-Leaded)
Magnesium Aluminum Silicate, Hydrated

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.
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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>Concentration</th>
<th>GHS Product Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frits, Ceramic (Non-Leaded)</td>
<td>65997-18-4</td>
<td>266-047-6</td>
<td>40.0-60.0%</td>
<td>H316 Mild Skin Irritation, Cat 3</td>
</tr>
<tr>
<td></td>
<td>7732-18-5</td>
<td>NA</td>
<td>40.0-60.0 %</td>
<td>N/A</td>
</tr>
<tr>
<td>Water</td>
<td>12199-37-0</td>
<td>235-374-6</td>
<td>0.5-2.0%</td>
<td>None</td>
</tr>
</tbody>
</table>
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, 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

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>TLV (mg/m$^3$)</th>
<th>PEL (mg/m$^3$)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frit, Non-Leaded Glass</td>
<td>65997-18-4</td>
<td>266-047-6</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>NA</td>
<td>No available information</td>
<td>No available information</td>
</tr>
<tr>
<td>Magnesium Aluminum Silicate, Hydrated</td>
<td>12199-37-0</td>
<td>235-374-6</td>
<td>15</td>
<td>5</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color:</td>
<td>Light Gray</td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>No available information</td>
</tr>
<tr>
<td>Odor:</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH:</td>
<td>7.0-8.0</td>
</tr>
<tr>
<td>Specific Gravity, g/cc:</td>
<td>1.35-1.45</td>
</tr>
<tr>
<td>Water Solubility:</td>
<td>Soluble</td>
</tr>
<tr>
<td>Melting Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Boiling Point:</td>
<td>100 °C</td>
</tr>
<tr>
<td>Vapor Pressure:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapor Density (air=1):</td>
<td>No data</td>
</tr>
<tr>
<td>VOC Content:</td>
<td>0.00 lbs/gal</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>1,000-2,000 cP</td>
</tr>
<tr>
<td>Decomposition Temperature:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto-ignition Temperature:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Partition Coefficient:</td>
<td>No data</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Chemical Stability: This material is stable under all conditions of use and storage.
Conditions to Avoid: None.
Materials to Avoid: None.
Hazardous Decomposition Products: None.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data
Skin Corrosion/Irritation: Irritating to skin
Serious Eye Damage/Irritation: Irritating to eyes
Sensitization: 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

Ecotoxicity: 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:

<table>
<thead>
<tr>
<th>Hazard Classes</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactivity Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Immediate Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Delayed Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

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

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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