

SAFETY DATA SHEET

Product: 562-S
Revision Date: 6/01/2015

1. MATERIAL IDENTIFICATION

Product Name: Crystalbond 562-S Stripper
Product Description: Clear Color, Caustic Odor
Product Use: Epoxy Remover Solvent
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:
Skin Corrosion/Irritation Category 1B
Eye Damage/Irritation Category 1
Acute Toxicity Oral Category 4
STOT SE Lungs Category 3
Metal Corrosion Category 1

GHS Symbol:



GHS Signal Word:
Danger

GHS Hazard Determining Components:
Caustic Potash
Silicic Acid, Disodium Salt
Tripropylene Glycol Monomethyl Ether

GHS Hazard Statements for Health Hazards:

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H290 May be corrosive to metals.

GHS Precautionary Statements - Prevention:

P262 Do not get in eyes, on skin, or on clothing.
P264 Wash hands thoroughly after handling
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves. Wear eye and face protection.
P405 Store locked up.

GHS Precautionary Statements – Response:

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P301+P312 IF SWALLOWED: Call a poison center or doctor if you feel unwell.
P303+P361+P353 IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Remove contact lenses, if present and easy to do. Rinse cautiously with water for several minutes.

GHS Precautionary Statements – Storage/Disposal:

P403+P233 Store in a well-ventilated place. Keep container tightly closed
P405 Store locked up.
P406 Store in corrosion resistant plastic container
P501 Dispose in accordance with local, regional, national or international regulations

3. COMPOSITION

| Chemical | CAS No. | EC No. | Concentration | GHS Product Identifier |
|--------------------------------------|------------|-----------|---------------|--|
| Caustic Potash | 1310-58-3 | 215-181-3 | 5.0-15.0% | H302 Acute Toxicity, Oral, Cat 4 H314 Skin Corrosion/Irritation, Cat 1B |
| Silicic Acid, Disodium Salt | 6834-92-0 | 229-912-9 | 1.0-5.0% | H314 Skin Corrosion/Irritation, Cat 1B H318 Eye Damage/Irritation, Cat 1 H335 STOT, SE; Respiratory Tract Irritation, Cat 3 H290 Metal Corrosion, Cat 1 |
| Tripropylene Glycol Monomethyl Ether | 25498-49-1 | 247-045-4 | 1.0-5.0% | None |
| Water | 7732-18-5 | NA | 70.0-90.0% | None |

4. FIRST AID MEASURES

Eye Exposure:

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. If a physician is not immediately available, eye irrigation should be continued for an additional 15 minutes.

Skin Exposure:

Immediately wipe excess material off skin with a dry cloth then wash with plenty of soap and water for at least 5 minutes. Seek medical attention if irritation develops or persists. Remove contaminated clothing and shoes and clean thoroughly before re-use.

Inhalation:

Remove from immediate source of exposure and assure that victim is breathing. If not breathing, administer cardio-pulmonary resuscitation (CPR). If breathing is difficult, administer oxygen if available. Seek medical attention.

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. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

5. FIRE FIGHTING MEASURES

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: None.

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:

Avoid breathing dust. Use vacuuming or sweeping compound for cleanup. Do not dry sweep or use methods that increase dusting. Prevent entry into sewers and waterways. Flush area with water to complete cleanup.

7. HANDLING AND STORAGE

Handling:

Avoid contact with eyes, skin and clothing. Avoid breathing dust. 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, and well ventilated. Store in clean plastic containers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| Chemical | CAS No. | EC No. | TLV (mg/m ³) | PEL (mg/m ³) |
|--------------------------------------|------------|-----------|--------------------------|--------------------------|
| Caustic Potash | 1310-58-3 | 215-181-3 | 2 | 2 |
| Silicic Acid, Disodium Salt | 6834-92-0 | 229-912-9 | 2 | 2 |
| Tripropylene Glycol Monomethyl Ether | 25498-49-1 | 247-045-4 | N/E | N/E |
| Water | 7732-18-5 | NA | N/A | N/A |

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

Respiratory Protection: Airborne concentrations should be kept to lowest levels possible. If vapor, mist or dust is generated, 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

Appearance: Liquid
Color: Clear
Odor: Moderate Caustic Odor
pH: > 13
Specific Gravity, g/cc: 1.05
Water Solubility: Soluble
Boiling Point: Not Determined
Melting Point: Not Determined
Vapor Pressure: Not Determined
Vapor Density (air=1): Not Determined

10. STABILITY AND REACTIVITY

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

Conditions to Avoid: Mixing with additional water, acid or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars or food and beverage products in enclosed spaces.

Materials to Avoid: Acids, halogenated compounds, prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys.

Hazardous Decomposition Products: None known.

Hazardous Polymerization: Will not occur

11. TOXICOLOGICAL INFORMATION

Component: Caustic Potash

Acute Toxicity: LC50 Oral, 365 mg/kg, Rat (25% Solution)

Other Information: Causes Severe Burns

Potential Acute Effects: Inhalation:
Highly Corrosive. Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Dust is corrosive. After 24-36 hours, injured persons may develop serious shortness of breath and lung edema. High concentrations may cause severe lung damage.

Skin Contact:
Causes severe burns. May cause serious chemical burns to the skin. Causes blisters and burns.

Eye Contact:
Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative. Risk of permanent corneal damage, loss of sight and blindness.

Ingestion:
Harmful if swallowed. Causes burns if swallowed. Causes burning sensation in the mouth, throat and esophagus. May cause serious permanent damage.

Delay / Chronic:

Sensitization:
This component is not considered to have sensitizing effects according to current labeling rules.

Carcinogenicity:
This component is not considered as carcinogenic according to current labeling rules.

Mutagenicity:
This component is not considered to have mutagenic or pro-mutagenic effects.

Teratogenic Properties:
This component is not considered to cause harm to the unborn child.

Reproductive Toxicity:
This component is not considered to have genotoxic effects.

Component:

Silicic Acid, Disodium Salt

Acute Toxicity:

Inhalation:
Inhalation LC50 Rat > 2.06 g/m³
Dust is a severe irritant to the respiratory tract. All symptoms of acute toxicity are due to high alkalinity.

Skin Contact:
Material will cause chemical burns to the skin.
Dermal LD50 Rat > 5000 mg/kg bw

Eye Contact:
Material will cause chemical burns. May cause permanent damage if eye is not immediately irrigated.

Ingestion:
Material will cause chemical burns. All symptoms of acute toxicity are due to high alkalinity.
Oral LD50 (Rat) 1152-1349 mg/kg bw

Delay / Chronic:

Sensitization:
This component is not considered to have sensitizing effects according to current labeling rules.

Carcinogenicity:
This component is not considered as carcinogenic and not listed by IARC, NTP or OSAH as carcinogens.

Mutagenicity:
No evidence of genotoxicity. In vitro/in vivo negative.

Reproductive Toxicity:
No evidence of reproductive toxicity or developmental toxicity.

12. ECOLOGICAL INFORMATION

Toxicity

Component:

Caustic Potash

Acute Aquatic, Daphnia, LC50 270 mg/l, 24 Hrs
Acute Aquatic, Daphnia, EC50 30 mg/l, 48 Hrs

Ecotoxicity:
This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product may affect the acidity in water with risk of harmful effects to aquatic organisms. Evaluate the necessity of neutralization.

Persistence & Degradability:
The product consists mainly of inorganic materials which are not biodegradable.

Bioaccumulative Potential:
Not expected to bioaccumulate

Mobility in Soil:
Soluble in water.

PBT & vPvB Assessment:
Neither assessment has been performed

Other Adverse Effects:
Alkalies cause increases in pH values in the water. A high pH value harms aquatic organisms. Do not allow to enter into sewer, water system or soil.

Component:

Silicic Acid, Disodium Salt

Acute Aquatic, Fish (Brachydanio Rerio) LC50 210 mg/l, 96 Hr
Acute Invertebrates (Daphnia Magna), EC50 1700 mg/l, 48 Hr

Persistence & Degradability:
Inorganic. Soluble silicates, upon dilution, rapidly depolymerize into molecular species indistinguishable from natural dissolved silica.

Bioaccumulative Potential:
Inorganic. The substance has no potential for bioaccumulation.

Mobility in Soil:
Not applicable.

PBT & vPvB Assessment:
Not classified as PBT or vPvB.

Other Adverse Effects:
The alkalinity of this material will have a local effect on ecosystems sensitive to changes in pH.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORTATION INFORMATION

DOT/IATA

Proper Shipping Name: Potassium Hydroxide Solution
DOT UN Number: 1814
Hazard Class: 8
Packing Group: II
Hazard Label: Corrosive Liquid

15. REGULATORY INFORMATION

U.S. Federal Regulations

CERCLA: CERCLA reportable quantity is 1000 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:

| Hazard Classes | Yes/No |
|-----------------------|---------------|
| Fire Hazard | No |
| Reactivity Hazard | Yes |
| 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

| | | |
|-----------------------------------|---|---|
| NFPA Ratings (scale 0 – 4) | Health, 3 Flammability, 0 Reactivity, 1 Personal Protection, H |  |
| HMIS Ratings (scale 0 – 4) | Health, 3 Flammability, 0 Reactivity, 1 Personal Protection, H |  |

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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