

**SECTION 1: IDENTIFICATION****1.1. Product Identifier****Product Form:** Substance**Product Name:** GU55**CAS-No.:** 1302-42-7**Product Code:** 133**Synonyms:** Sodium aluminate**1.2. Intended Use of the Product**

Water treatment chemical. Phosphorus removal. Concrete/drilling mud accelerant. For professional use only.

**1.3. Name, Address, and Telephone of the Responsible Party****Company**

USALCO, LLC

2601 Cannery Ave.

Baltimore, MD 21226

410-354-0100

[usalco.com](http://usalco.com)**1.4. Emergency Telephone Number****Emergency Number** : 1-800-282-5322 (CHEMTREC)**SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the Substance or Mixture****GHS-US/CA Classification**

Met. Corr. 1 H290

Skin Corr. 1A H314

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

**2.2. Label Elements****GHS-US/CA Labeling****Hazard Pictograms (GHS-US/CA)** :**Signal Word (GHS-US/CA)** : Danger**Hazard Statements (GHS-US/CA)** : H290 - May be corrosive to metals.  
H314 - Causes severe skin burns and eye damage.  
H318 - Causes serious eye damage.**Precautionary Statements (GHS-US/CA)** : P234 - Keep only in original container.  
P260 - Do not breathe dust.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see section 4 on this SDS).  
P363 - Wash contaminated clothing before reuse.

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P390 - Absorb spillage to prevent material-damage.  
P405 - Store locked up.  
P406 - Store in corrosive resistant container with a resistant inner liner.  
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Name : GU55  
CAS-No. : 1302-42-7

| Name                                   | Synonyms   | Product Identifier  | % * | GHS Ingredient Classification                                 |
|--|--|---------------------|-----|---|
| Sodium aluminate (NaAlO <sub>2</sub> ) | Aluminate (AlO <sub>2</sub> <sup>-</sup> ), sodium / Aluminium sodium dioxide / Sodium aluminate / Aluminate, sodium / Sodium aluminate solution / Sodium aluminum oxide / Aluminum sodium dioxide / Aluminate (AlO <sub>2</sub> <sup>-</sup> ), sodium (1:1) / SODIUM ALUMINATE | (CAS-No.) 1302-42-7 | 100 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314<br>Eye Dam. 1, H318 |

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

**Skin Contact:** Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Get immediate medical advice/attention.

**Eye Contact:** Immediately rinse with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes severe skin burns and eye damage.

**Inhalation:** If dust is generated: Corrosive to the respiratory tract.

**Skin Contact:** Causes severe irritation which will progress to chemical burns.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

**Chronic Symptoms:** None known.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog (flooding amounts), carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not flammable but may decompose at high temperatures.

**Explosion Hazard:** Contact with metallic substances may release flammable hydrogen gas.

**Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react vigorously with strong acids. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Avoid raising dust.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Metal oxides. Sodium oxides. Sodium hydroxide. Corrosive vapors.

**Other Information:** Exothermic reaction with water.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not breathe dust. Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled solid. Absorb spillage to prevent material damage. Recover the product by vacuuming, shoveling or sweeping. Vacuum clean-up is preferred. If sweeping is required use a dust suppressant. Do not use water for dust suppression, product reacts exothermically with water creating a highly basic solution. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May be corrosive to metals. May release corrosive vapors. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause violent reaction. The solution in water is a strong base. It reacts violently with acid and is corrosive to most metals. Reacts with ammonium salts. This generates fire hazard.

**Precautions for Safe Handling:** Avoid creating or spreading dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Protect from moisture. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Use appropriate personal protective equipment (PPE).

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash contaminated clothing before reuse.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool and well-ventilated place. Protect from moisture.

Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container. Store locked up/in a secure area.

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**Incompatible Materials:** Strong acids. Strong oxidizers. Aldehydes. Ammonium salts. Combustible materials. Water. Metals. May be corrosive to metals.

### 7.3. Specific End Use(s)

Water treatment chemical. Phosphorus removal. Concrete/drilling mud accelerant. For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Maintain sufficient mechanical or natural ventilation to assure concentrations remain below PEL/TLV. Use local exhaust if necessary. Power equipment should be equipped with properly designed dust collection devices. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics. Corrosion-proof clothing.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles and face shield.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Environmental Exposure Controls:** Avoid release to the environment.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|                                |                                   |
|--------------------------------|-----------------------------------|
| Physical State                 | : Solid                           |
| Appearance                     | : White amorphous powder          |
| Odor                           | : Negligible                      |
| Odor Threshold                 | : Not available                   |
| pH                             | : Not available                   |
| Evaporation Rate               | : Not available                   |
| Melting Point                  | : 1650 - 1850 °C (3002 - 3362 °F) |
| Freezing Point                 | : Not available                   |
| Boiling Point                  | : Not available                   |
| Flash Point                    | : Not available                   |
| Auto-ignition Temperature      | : Not available                   |
| Decomposition Temperature      | : Not available                   |
| Flammability (solid, gas)      | : Not available                   |
| Lower Flammable Limit          | : Not available                   |
| Upper Flammable Limit          | : Not available                   |
| Vapor Pressure                 | : Not available                   |
| Relative Vapor Density at 20°C | : Not available                   |
| Relative Density               | : 1.52 (Water= 1) @ 25 °C         |
| Specific Gravity               | : Not available                   |

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|   |                 |
|---|-----------------|
| <b>Solubility</b>                             | : Water: 100%   |
| <b>Partition Coefficient: N-Octanol/Water</b> | : Not available |
| <b>Viscosity</b>                              | : Not available |

### SECTION 10: STABILITY AND REACTIVITY

- 10.1. Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas. May react vigorously with strong acids. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials. Moisture. Water. Generation of airborne dust.
- 10.5. Incompatible Materials:** Strong acids. Strong oxidizers. Aldehydes. Ammonium salts. Combustible materials. Water. Metals. May be corrosive to metals.
- 10.6. Hazardous Decomposition Products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Corrosive vapors.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

- Acute Toxicity (Oral):** Not classified
- Acute Toxicity (Dermal):** Not classified
- Acute Toxicity (Inhalation):** Not classified
- LD50 and LC50 Data:** Not available
- Skin Corrosion/Irritation:** Causes severe skin burns and eye damage.
- Eye Damage/Irritation:** Causes serious eye damage.
- Respiratory or Skin Sensitization:** Not classified
- Germ Cell Mutagenicity:** Not classified
- Carcinogenicity:** Not classified
- Specific Target Organ Toxicity (Repeated Exposure):** Not classified
- Reproductive Toxicity:** Not classified
- Specific Target Organ Toxicity (Single Exposure):** Not classified
- Aspiration Hazard:** Not classified
- Symptoms/Injuries After Inhalation:** If dust is generated: Corrosive to the respiratory tract.
- Symptoms/Injuries After Skin Contact:** Causes severe irritation which will progress to chemical burns.
- Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.
- Symptoms/Injuries After Ingestion:** Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
- Chronic Symptoms:** None known.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

- LD50 and LC50 Data:** Not available

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

- Ecology - General:** Not classified.

#### 12.2. Persistence and Degradability

|                                      |                  |
|--------------------------------------|------------------|
| <b>GU55 (1302-42-7)</b>              |                  |
| <b>Persistence and Degradability</b> | Not established. |

#### 12.3. Bioaccumulative Potential

|                                  |                  |
|----------------------------------|------------------|
| <b>GU55 (1302-42-7)</b>          |                  |
| <b>Bioaccumulative Potential</b> | Not established. |

#### 12.4. Mobility in Soil

|                         |                  |
|-------------------------|------------------|
| <b>GU55 (1302-42-7)</b> |                  |
| <b>Ecology - Soil</b>   | Not established. |

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## 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : SODIUM ALUMINATE, SOLID  
**Hazard Class** : 8  
**Identification Number** : UN2812  
**Label Codes** : 8  
**Packing Group** : III  
**ERG Number** : 154



### 14.2. In Accordance with IMDG

Not subject to the provision of this Code.

### 14.3. In Accordance with IATA

**Proper Shipping Name** : SODIUM ALUMINATE, SOLID  
**Hazard Class** : 8  
**Identification Number** : UN2812  
**Label Codes** : 8  
**Packing Group** : III  
**ERG Code (IATA)** : 8L



### 14.4. In Accordance with TDG

**Proper Shipping Name** : SODIUM ALUMINATE, SOLID  
**Hazard Class** : 8  
**Identification Number** : UN2812  
**Label Codes** : 8  
**Packing Group** : III



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

|   |   |
|---|---|
| <b>GU55 (1302-42-7)</b>   |   |
| <b>SARA Section 311/312 Hazard Classes</b>                                | Physical hazard - Corrosive to metals<br>Health hazard - Serious eye damage or eye irritation<br>Health hazard - Skin corrosion or Irritation |
| <b>Sodium aluminate (NaAlO<sub>2</sub>) (1302-42-7)</b>                   |   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |   |

### 15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed.

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### 15.3. Canadian Regulations

**Sodium aluminate (NaAlO<sub>2</sub>) (1302-42-7)**

Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 06/04/2019

**Revision**

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

|               |  |
|---------------|--|
| Eye Dam. 1    | Serious eye damage/eye irritation Category 1 |
| Met. Corr. 1  | Corrosive to metals Category 1               |
| Skin Corr. 1A | Skin corrosion/irritation Category 1A        |
| H290          | May be corrosive to metals                   |
| H314          | Causes severe skin burns and eye damage      |
| H318          | Causes serious eye damage                    |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

NA GHS SDS 2015 (Can, US)