

# Sodium Aluminate Solution

USALCO 38, USALCO 43, USALCO 45

MSDS No. 132

10/27/2020

## Safety Data Sheet

### 1. IDENTIFICATION

#### Product Identifier

##### Product Name

Sodium Aluminate, solution

##### Other means of identification

SDS #

132

Manufacturer

USALCO, LLC

2601 Cannery Ave

Baltimore, MD 21226

##### UN/ID No

UN 1819

##### Synonyms

USALCO 38, USALCO 43, USALCO 45

Emergency Telephone Number

Company Phone Number

Emergency Telephone (24 hr)

**410-918-2230**

**800- 282-5322**

### 2. HAZARDS IDENTIFICATION

**Appearance:** Viscous colorless to amber liquid.

**Physical State:** Liquid .

**Odor:** No or very mild odor.

Classification

Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Corrosive to Metals	Category 1

#### Signal Word

Danger

#### Hazard Statements

Causes severe skin burns and eye damage

May be corrosive to metals.



#### Precautionary Statements - Prevention

Do not breathe fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

#### Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Immediately call a POISON CENTER or doctor/physician

#### Precautionary Statements - Storage

Store in corrosive resistant container or a container with corrosive resistant inner liner.

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal facility.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms** Aluminum sodium dioxide  
**Chemical Family** Inorganic Salt.

Ingredient Name	CAS Number	% wt
Sodium aluminate	1302-42-7	37-46
Water	7732-18-5	52-66

**4. FIRST-AID MEASURES**
**First Aid Measures**

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.

**Skin Contact** Take off contaminated clothing. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention if necessary.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately if symptoms are present.

**Ingestion** Drink plenty of water. Do not induce vomiting. Seek medical attention immediately.

**Most important symptoms and effects**

**Symptoms** Ingestion will cause corrosive burns to mouth, throat, and stomach. Contact may cause severe skin irritation and burns. May cause eye burns and permanent eye damage. Inhalation causes irritation and burning to nose and throat.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically. For inhalation, consider oxygen. Avoid gastric lavage or emesis.

**5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water. Foam.

**Unsuitable Extinguishing Media** None identified.

**Specific Hazards Arising from the Chemical** Negligible fire hazard.

Sensitivity to Mechanical Impact Not sensitive.  
 Sensitivity to Static Discharge Not sensitive.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Reduce vapors with water spray. Avoid inhalation of combustion by-products.

**6. ACCIDENTAL RELEASE MEASURES**
**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Do not touch damaged packages or spilled material. Keep unnecessary people away, isolate hazard area and deny entry.

**Methods and material for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Dike and contain spill. Move containers from spill area.

**Methods for Clean-Up** Cover liquid spill with sand, earth or other non-combustible absorbent material. Place in appropriate containers for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling**

Wash thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe fume/gas/mist/vapors/spray.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Store away from incompatible materials.

**Incompatible Materials**

Acids. Combustible material. Metals. Aldehydes. Metals such as aluminum, tin, and zinc.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

No exposure limits noted for ingredient(s)

### Appropriate engineering controls

**Engineering Controls**

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. Eyewash stations. Showers.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection**

Wear chemical goggles and face shield.

**Skin and Body Protection**

Chemical resistant protective gloves. Wear appropriate chemical resistant clothing.

**Respiratory Protection**

While not normally required, respiratory protection may be required under conditions where extensive misting may occur due to insufficient or improper engineering controls.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquid	
Odor	Not available	
Odor Threshold	Not available	
Appearance	Clear to amber liquid	
pH of 1% solution	>11.5	pH of >1% solutions will range from 11.5-14
Melting Point/Freezing Point	0° to 12° F	
Boiling Point/Boiling Range	>230° F	
Flash Point	Not applicable	
Evaporation Rate	Not determined	
Flammability (Solid, Gas)	Not flammable	
Upper Flammability Limits	Not flammable	
Lower Flammability Limit	Not flammable	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Specific Gravity	±1.52	(1=Water) @ 25 °C (77 °F)
Water Solubility	Soluble in water	
Solubility in other solvents	Insoluble in alcohol	
Partition Coefficient	Not available	
Decomposition Temperature	Not determined	
Viscosity	Up to 1,500cps @55° F	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	
Additional Information	Molecular Weight:	81.97
Density	12.0 to 13.1 lbs/gal	

**10. STABILITY AND REACTIVITY****Reactivity**

Not reactive under normal conditions.

**Chemical Stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

May react violently with acids.

**Hazardous Polymerization**      Hazardous polymerization does not occur.

**Conditions to Avoid**

Contact with incompatible materials.

**Incompatible Materials**

Acids. Aldehydes. Metals such as aluminum, tin, and zinc.

**Hazardous Decomposition Products**

None

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure****Product Information**

**Eye Contact**      Causes severe eye damage.

**Skin Contact**      Causes severe skin burns.

**Inhalation**      Avoid inhalation of mist.

**Ingestion**      Do not taste or swallow.

**Information on physical, chemical and toxicological effects**

**Symptoms**      Please see section 4 of this SDS for symptoms.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Carcinogenicity**      This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Persistence/Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS**
**Waste Treatment Methods**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations. EPA Hazardous Waste Code: D002 (Corrosive) if the pH is >12.5.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

**California Hazardous Waste Status**

Chemical Name Sodium aluminate 1302-42-7	California Hazardous Waste Status Corrosive
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**14. TRANSPORT INFORMATION**

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

<b>UN/ID No</b>	UN1819
<b>Proper Shipping Name</b>	Sodium aluminate, solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**IATA**

<b>UN/ID No</b>	UN1819
<b>Proper Shipping Name</b>	Sodium aluminate, solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**IMDG**

<b>UN/ID No</b>	UN1819
<b>Proper Shipping Name</b>	Sodium aluminate, solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**TDG**

<b>UN/ID No</b>	UN1819
<b>Proper Shipping Name</b>	Sodium aluminate, solution
<b>Hazard Class</b>	8
<b>Packing Group</b>	II

**15. REGULATORY INFORMATION**
**International Inventories**

<b>TSCA</b>	Listed
<b>DSL</b>	Listed
<b>EINECS</b>	Listed
<b>ENCS</b>	Listed
<b>IECSC</b>	Listed
<b>KECL</b>	Listed
<b>PICCS</b>	Listed
<b>AICS</b>	Listed

## Legend:

- TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS** - Japan Existing and New Chemical Substances
- IECSC** - China Inventory of Existing Chemical Substances
- KECL** - Korean Existing and Evaluated Chemical Substances
- PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**US Federal Regulations**
**CERCLA**

Sodium hydroxide is listed under SARA Section 302 (40 CFR 355 Appendix A) and CERCLA (40 CFR 302.4) and has a reportable quantity of 1,000 lbs.

**SARA 311/312 Hazard Categories**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

**US State Regulations**
**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated under applicable state right-to-know regulations

<b>16. OTHER INFORMATION</b>
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<b>NFPA</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	3	0	0	Not determined
<b>HMIS</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical Hazards</b>	<b>Personal Protection</b>
	3	0	0	0

**Issue Date** 20-Sep-2011

**Revision Date:** 1/14/2020 – Revised Section 2. 4/05/2016 – Sec. 9 updated. 4/30/2015 - New format  
10/27/2020 – Sec. 3 revised

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**