

Sodium Aluminate Solution



MSDS No. 132

4/05/2016

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

410-918-2230

Emergency Telephone (24 hr)

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 C
Serious eye damage/eye irritation	Category 1

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage

**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	31-45
Sodium hydroxide	1310-73-2	3-9
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.
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Indication of any immediate medical attention and special treatment needed

Notes to Physician	Treat symptomatically. For inhalation, consider oxygen. Avoid gastric lavage or emesis.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Dry chemical. Carbon dioxide (CO ₂). 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.
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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

- Disposal of Wastes** 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.
- Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name	California Hazardous Waste Status
Sodium aluminate 1302-42-7	Corrosive

14. TRANSPORT INFORMATION

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

DOT

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

IATA

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

IMDG

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

TDG

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

15. REGULATORY INFORMATION
International Inventories

TSCA Listed
DSL Listed
EINECS Listed
ENCS Listed
IECSC Listed
KECL Listed
PICCS Listed
AICS Listed

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - 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

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	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

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	3	0	0	Not determined
HMIS	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	0	0	0

Issue Date	20-Sep-2011
Revision Date:	4/05/2016 – Sec. 9 updated. 4/30/2015 - New format

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