



I. Product and Company Information

Product Name:	Sodium Aluminate - 43%	Synonym:	
Chemical Name:	Sodium Aluminate Solution	CAS Number:	1302-42-7
Manufacturer's Name: Southern Ionics Incorporated 210 Commerce St West Point, MS 39773 Customer Service: 1-800-953-3585 Web Site www.southernionics.com		Emergency Contacts Transportation (CHEMTREC) 1-800-424-9300	

II. Composition / Information on Ingredients

Chemical Name	CAS Reg #'s	%	ACGIH TLV	OSHA PEL
Sodium Hydroxide	1310-73-2	5-8	C 2.0 mg/m ³	TWA 2.0 mg/m ³
Sodium Aluminate	1302-42-7	36-39		
Water	7732-18-5	Balance		

III. Hazard Identification

Eyes:	May cause tissue damage and vision loss.				
Skin:	Strongly corrosive to tissue.				
Inhalation:	Severe respiratory tract irritant.				
Ingestion:	Corrosive to gastrointestinal tissue.				
Carcinogenicity:	NPT	Not Listed	IARC	Not Listed	OSHA Not Regulated
NFPA Hazard Classification:	Health Hazard (Blue)				3
	Flammability (Red)				0
	Reactivity (Yellow)				1
	Special Instructions (White)				N/A
NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme					

IV. First Aid Measures

Eyes:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Seek medical attention.
Skin:	Flush contaminated area with large amounts of water for at least 15 minutes; remove contaminated clothing. Seek medical attention.
Inhalation:	Remove to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention.
Ingestion:	If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention.

V. Fire Fighting Measures

Flash Point:	Not Applicable	Autoignition Temperature	Not Applicable
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit	Not Applicable
Extinguishing Media:	Dry chemical; water fog; water		
Special Firefighting Procedure:	Not Applicable		

VI. Accidental Release Measures

Precaution if Spilled or Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Neutralizing Chemicals:	Dilute Acid

VII. Handling and Storage

Handling:	Handle all chemicals with respect. Review the label, this MSDS and any other applicable information before use. Keep separated from incompatible substances. Use appropriate Personal Protective Equipment per Section 8. Handle only with equipment, materials and supplies specified by their manufacturer as being compatible and appropriate for use with this product.
Storage:	Use black iron, mild steel, cast iron or stainless steel for bulk storage. Do not store below 45°F. Storage temperature of 70° to 100°F is recommended.

VIII. Exposure Control / Personal Protective Equipment

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
General Hygiene:	Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.
Personal Protection:	
Eye:	Chemical goggles; safety glasses/face shield
Skin:	Neoprene rubber or plasticized clothing and boots
Respiratory:	None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.
Other Protective Items:	Ensure that eyewash stations and safety showers are proximal to the work-station location.

IX. Physical and Chemical Properties

Physical State:	Liquid	pH:	14
Appearance:	Clear to amber	Molecular Weight:	Not Available
Odor:	Slight	Relative Density:	Not Available
Specific Gravity:(H₂O=1)	1.52 (typical)	Vapor Density: (Air=1)	N/A
Vapor Pressure:	None	Solubility in water:	45%
Boiling Point:	244°F	Melting Point:	-27°F
Other:	12.65 lbs/gal (typical)		

X. Stability and Reactivity Data

Chemical Stability:	Product is stable under normal or expected use
Conditions To Avoid:	Mixture with strong acids produces considerable heat.
Incompatible Materials:	Copper, tin, zinc, aluminum, and their alloys must be avoided.
Hazardous Decomposition Products:	None
Hazardous Polymerization:	Will not occur

XI. Toxicological Information

Ingredient Name	Species	Test	Period	Results
Sodium Hydroxide	LD 50	500 mg/kg	oral	rabbit

XII. Ecological Information

Environmental Fate:	When released into the soil, this material is not expected to biodegrade. When released into the soil, this material may leach into groundwater.
Ecotoxicity:	This material is expected to be toxic to aquatic life.

XIII. Disposal Considerations

Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.
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XIV. Transportation Information

Proper Shipping Name:	Sodium Aluminate Solution
DOT Classification:	8
Identification Number:	UN 1819
Packing Group:	II
Other Labels:	Corrosive
Global Harmonization Number:	2841.90.40

XV. Regulatory Information

Inventory Status:		US Regulations:			
U. S. TSCA	Yes	SARA 302 TPQ	Not Listed		
Europe EINECS	Yes	SARA 304 RQ	Not Listed		
Canadian DSL	Yes	SARA 313 List	Not Listed		
Canadian NDSL	Yes	CERCLA (RQ)	NaOH 1,000 lbs		
Japan MITI	Yes	RCRA 261.33	Not Listed - May be a Characteristic Waste		
Korean TCCL	Yes				
Philippines PICCS	Yes				
Australian AICS	Yes	SARA 311/312	<input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive		
International Regulations:		State Regulations:		:	
Canada WHIMS	E	California PROP 65	No		
EINECS #	215-100-1				

XVI. Other Information

NSF Certification:	Sodium Aluminate manufactured at Calhoun, TN is NSF-60 Certified. Maximum use in potable water is 105 mg/l.
Other:	_____
Revision Notes:	_____

SALES OFFICE

For Product Information:

TEL: 662-494-3055

FAX: 662-494-2828

Post Office Drawer 1217

West Point, MS 39773

To Place An Order:

TEL: 800-953-3585

FAX: 800-953-3588

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