



**I. Product and Company Information**

<b>Product Name:</b>	Sodium Aluminate - 45%	<b>Synonym:</b>	
<b>Chemical Name:</b>	Sodium Aluminate Solution	<b>CAS Number:</b>	1302-42-7
<b>Manufacturer's Name:</b> Southern Ionics Incorporated 210 Commerce St West Point, MS 39773 Customer Service: 1-800-953-3585 Web Site <a href="http://www.southernionics.com">www.southernionics.com</a>		<b>Emergency Contacts</b> 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	4-7	C 2.0 mg/m <sup>3</sup>	TWA 2.0 mg/m <sup>3</sup>
Sodium Aluminate	1302-42-7	40-42		
Water	7732-18-5	Balance		

**III. Hazard Identification**

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

**IV. First Aid Measures**

<b>Eyes:</b>	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.
<b>Skin:</b>	Flush contaminated area with large amounts of water for at least 15 minutes; remove contaminated clothing. Seek medical attention.
<b>Inhalation:</b>	Remove to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention.
<b>Ingestion:</b>	If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention.

## V. Fire Fighting Measures

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

## VI. Accidental Release Measures

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

## VII. Handling and Storage

<b>Handling:</b>	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.
<b>Storage:</b>	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

<b>Engineering Controls:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
<b>General Hygiene:</b>	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.
<b>Personal Protection:</b>	
<b>Eye:</b>	Chemical goggles; safety glasses/face shield
<b>Skin:</b>	Neoprene rubber or plasticized clothing and boots
<b>Respiratory:</b>	None required under normal conditions. When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.
<b>Other Protective Items:</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location.

## IX. Physical and Chemical Properties

<b>Physical State:</b>	Liquid	<b>pH:</b>	14
<b>Appearance:</b>	Clear to amber	<b>Molecular Weight:</b>	Not Available
<b>Odor:</b>	Slight	<b>Relative Density:</b>	Not Available
<b>Specific Gravity:(H<sub>2</sub>O=1)</b>	1.55 (typical)	<b>Vapor Density: (Air=1)</b>	N/A
<b>Vapor Pressure:</b>	None	<b>Solubility in water:</b>	45%
<b>Boiling Point:</b>	244°F	<b>Melting Point:</b>	-27°F
<b>Other:</b>	12.9 lbs/gal (typical)		

### X. Stability and Reactivity Data

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

### XI. Toxicological Information

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

### XII. Ecological Information

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

### XIII. Disposal Considerations

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

<b>Proper Shipping Name:</b>	Sodium Aluminate Solution
<b>DOT Classification:</b>	8
<b>Identification Number:</b>	UN 1819
<b>Packing Group:</b>	II
<b>Other Labels:</b>	Corrosive
<b>Global Harmonization Number:</b>	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		
<b>International Regulations:</b>		<b>State Regulations:</b>		<b>:</b>	
Canada WHIMS	E	California PROP 65	No		
EINECS #	215-100-1				

## XVI. Other Information

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

### 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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### IMPORTANT

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