

## SOUTHERN IONICS INCORPORATED (SII) SAFETY DATA SHEET

Effective Date: April 17, 2015 Revision Date: September 25, 2023

SDS NO. 204

I. Product and Company Information							
SII Product Name(s):	Sodium Aluminate Solution (38%, 43%, & 45%)	Synonym(s):	LSA, Liquid Sodium Aluminate				
Chemical Name:	Sodium Aluminate Solution	CAS Number:	1302-42-7				
Manufacturer's Name:		Emergency Cor	Emergency Contacts:				
Southern Ionics Incorporated		Afterhours (Sou	Afterhours (Southern Ionics):				
579 Commerce Street		1-888-610-2379	1-888-610-2379				
West Point, MS 39773		For Chemical Er	For Chemical Emergency, Spill or Accident				
Customer Service: 1-800	0-953-3585	Call CHEMTREC	Call CHEMTREC at 1-800-424-9300				
Web Site: www.souther	rnionics.com	CHEMTREC CCN	CHEMTREC CCN - 20596				

II. Hazard Identification						
OSHA HCS / GHS Classification(s):		Hazard Statement(s):				
Skin Corrosion, Category 1A			Causes severe skin burns.			
Serious Eye Damage, Ca	tegory 1		Causes serious eye damage.			
Corrosive to Metals, Cat	egory 1		May be corrosive to metals.			
Signal Word:	Precautionar	y Statement(s):				
Danger	Prevention:	Wash affected body pa	art thoroughly after handling.			
Symbol(s):		Wear eye and face pro	otection.			
		Wear protective glove	ective gloves and clothing.			
		Keep in original container.				
Pa	Response:	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately seek				
		medical advice.				
		IF ON SKIN: Immedia	itely remove all contaminated clothing. Rinse skin			
•		with water. Continue rinsing. Wash contaminated clothing before reuse.				
		IF IN EYES: Rinse cautiously with water for several minutes. Remove				
		contact lenses, if present and easy to do so. Continue rinsing.				
		For specific treatment, see Section IV. First Aid Measures.				

III. Composition / Information on Ingredients						
Chemical Name: CAS Number(s): %						
Sodium Aluminate	1302-42-7	31- 42				
Sodium Hydroxide	1310-73-2	4 - 10				
Water	7732-18-5	Balance				

IV. First Aid Measures						
Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses. Seek medical attention, if you feel unwell.					
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 15 minutes. Seek medical attention, if you feel unwell.					
Inhalation:	Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell.					
Ingestion:	If swallowed, DO NOT induce vomiting. Rinse mouth. Seek medical attention, if you feel unwell.					

V. Fire Fighting Measures								
NFPA Hazard Rating:	WFPA Hazard Rating: Health (Blue) Fire (Red) Reactivity (Yellow) Special Instructions (White							
	3 0 1 None							
NFPA Hazard Classification: 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme								
Extinguishing Media:	<b>Extinguishing Media:</b> Use extinguishing media appropriate for surrounding fire.							
Special Firefighting Procedure:								

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. Keep separated from incompatible substances.						
	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. Store at						
	appropriate temperature to protect from freezing or crystallization. Store away from						
	excessive heat (e.g. steam pipes, radiators), and from reactive materials. Do not store						
	this material near food, animal feed, or drinking water. Store in a well-ventilated area.						
	Keep container tightly closed when not in use.						

VIII. Exposure Control / Personal Protective Equipment						
<b>Component Workplace</b>	Control Param	eters:				
Components:	CAS Number	Value	Parameters	Basis		
Sodium Hydroxide	1310-73-2	TWA	2.0 mg/m <sup>3</sup>	as Sodium Hydroxide		
Engineering Controls:				engineering controls to ke spective threshold limit valu		
General Hygiene:	Practice good p drinking, smoki		• •	sing this material, especial	ly before eating,	
Personal Protection Equ	uipment:					
Eye:	Use chemical spl with respiratory	0 00		eld. Eye protection worn mu loyed.	ist be compatible	
Skin:	Chemical-resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.					
Respiratory:	None required under normal conditions. When conditions warrant a respirator, use NIOSH-approved respirator and cartridge for particulates and Sulfur Dioxide.					
Other Protective Items:	Where splash is possible, full chemical-resistant protective clothing and boots are required. Ensure that eyewash stations and safety showers are proximal to the work location.					
HMIS Classification:	Health (Blue)	Flamm	ability (Red)	Physical Hazard (Yellow)	PPE (White)	
	3		0	1	See Above	
Hazard Classifica	tion: $0 = Minin$	nal $1=3$	Slight $2 = \overline{Mo}$	derate 3 = Serious 4 =	Severe	

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IX. Physical and Chemical Properties								
Physical State:	Physical State: Liquid pH: 14							
Appearance:	Clear to hazy, yellow to amber	Molecular Weight:	93.3 - 102.5					
Odor:	Slight	Odor Threshold:	No Data Available					
Specific Gravity: (H <sub>2</sub> O=1)	1.48 - 1.55 @ 77°F/25°C	Weight per Gallon:	12.3 - 12.9 lbs. @ 77°F / 25°C					
Vapor Density: (Air=1)	Similar to water	Vapor Pressure:	Similar to Water					
Boiling Point:	228°F - 244°F (108°C -	Freezing/Melting Point:	24.8°F - 14°F					
	118°C)		(-4°C to -10°C)					
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable					
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable					
Solubility in Water:	Appreciable	Other:						

X. Stability and Reactivity Data							
Chemical Stability:	Product is stable under normal or expected use.						
Conditions To Avoid:	Conditions To Avoid: Mixture with strong acids produces considerable heat.						
Incompatible Materials: Avoid contact with copper, tin, zinc, aluminum, and their alloys.							
<b>Hazardous Products of</b>	None						
Decomposition:							

XI. Toxicological Information							
Routes of Entry:	⊠ Eyes 🛛	Skin		ion 🖂	Inhalation		
Sign and Symptoms of	May cause in	ritation	to eyes, sk	kin, and r	espiratory passa	ges.	
Exposure:							
Eye Contact:	Causes serio	us eye d	lamage.				
Ingestion:	May cause b	urns to	mouth, thr	oat, and	stomach.		
Skin Contact:	Causes seve	re skin b	urns.				
Inhalation:	May irritate	respirat	ory tract.				
Carcinogenicity: Not Liste	ed <b>NPT</b>	d NPT Not Listed IARC Not Listed OSHA Not Regulated					
Ingredient Name:	Species Test Route Results						
Sodium Hydroxide	Rabbit 1350 mg/kg Dermal LD50						
Comments:							

XII. Ecological Information							
Ingredient Name: Species Test Period Results							
Sodium Aluminate	Western Mosquitofish	111 mg/L	96 hrs	LC50			
Comments: When released into the soil, this material is not expected to biodegrade and may leach into groundwater.							

XIII. Disposal Considerations		
Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.	

XIV. Transportation Information						
Proper Shipping Name:	Sodium alun	ninate solution				
DOT Classification:	8					
<b>Identification Number:</b>	UN 1819	Packing Group:	II	Other Labels:	Corrosive	

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Comments:								
XV. Regulatory Information								
Inventory Status:		US Regulations:						
U. S. TSCA	Yes	SARA 302 TPQ Not Listed						
Europe EINECS	Yes	SARA 304 RQ	ARA 304 RQ Not Listed					
Canadian DSL	Yes	SARA 313 List	ARA 313 List Not Listed					
Japan ENCS	Yes	CERCLA (RQ)	CLA (RQ) 1,000 lbs on dry weight basis as Sodium Hydroxide					
Korean KECI	Yes	RCRA 261.33	D002 (Corrosive) if the pH of the waste is ≥12.5					
Philippines PICCS	Yes							
Australian AICS	Yes	SARA 311/312	🛮 Acute 🗌 Chronic	☐ Fire ☐ Release of Pres	sure 🗌 Reactive			
International Regulations:			Other Regulations:					
EINECS	215-100-1		·	California PROP 65	Not Listed			
<b>Comments:</b>			·					

XVI. Other Information			
Other:			
Revision Notes:	04.12.18 Section I. Product and Company Information, SII Product Name(s)- added all products covered under the SDS; Section IX. Physical and Chemical Properties, Appearance – revised wording; Section XV. Regulatory Information, International Regulations – removed Canada information.  10.30.18 Section IX. Physical and Chemical Properties, Appearance – revised wording. 09.25.20 Reviewed as part of a 3-year review process. Updated logo and formatting. 09.25.23 Removal of the exclamation mark in the Hazard Identification Section.		
MSDS Replacements:	SII MSDS 001 - Sodium Aluminate 45%, SII MSDS 003 - Sodium Aluminate 43%, SII		
	MSDS 004 - Sodium Aluminate 38%.		

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## **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

## **IMPORTANT**

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