

SOUTHERN IONICS INCORPORATED (SII) SAFETY DATA SHEET

SDS NO. 204 Effective Date: April 17, 2015 Revision Date:

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

II. Hazard Identification						
OSHA HCS / GHS Cla	ssification(s):		Hazard Statement(s):			
Skin Corrosion, Catego Serious Eye Damage, (Causes severe skin burns. Causes serious eye damage.			
Corrosive to Metals, C			May be corrosive to metals.			
Signal Word:	Precautionar	y Statement(s):				
Danger	Prevention:	Wash affected body part t	horoughly after handling.			
Symbol(s):		Wear eye and face protect	tion.			
A A		Wear protective gloves and clothing.				
		Keep in original container.				
⟨乖ѕУ⟨ ┆ ⟩	Response:	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately seek				
		medical advice.				
V V		IF ON SKIN: Take off imm	ediately 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 First Aid section IV.				

III. Composition / Information on Ingredients						
Chemical Name	CAS Reg #'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							
Health (Blue) Fire (Red) Reactivity (Yellow) Special Instructions (White)							
NFPA Hazard Rating:	3	0	1	None			
NFPA Hazard Classification: 0 = Least 1=Slight 2= Moderate 3= High 4= Extreme							
Extinguishing Media:	Extinguishing Media: Use extinguishing media appropriate for surrounding fire.						
Special Firefighting Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to							
Procedure:	keep containers	cool and to ki	nock down fumes.				

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

VII. Handling and Storage									
Handling:									
	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									
	appropriate temperature to protect from freezing or crystallization. Consult the								
	appropriate SII Product Bulletin for temperature recommendations. Do not store								
	this material near food, animal feed, or drinking water. Store in a well ventilated								
area. Store away from excessive heat (e.g. steam pipes, radiators), and from read									
	materials. Keep container tightly closed when not in use.								

VII	VIII. Exposure Control / Personal Protective Equipment							
Component Workplace Control Parameters:								
Components:	CAS	S-No. Value Parameters Basis						
Sodium Hydroxide	131	0-73-2	TWA	2.0mg/m ³	as So	dium Hydroxide		
Engineering Controls	:					gineering controls to keep th spective threshold limit valu		
General Hygiene:		-		sonal hygiene at g, or using the to		ng this material, especially l	pefore eating,	
Personal Protection	ı Eqı	ipment:						
Eye:		Use chem	ical spla	sh goggles and f	ace shi	ield. Eye protection worn m	ust be	
		•				system employed.		
Skin:				0		orn whenever this material		
					-	immediately if there is any	indication of	
)		emical breakthi				
Respiratory:						. When conditions warrant a	•	
	NIOSH approved respirator and cartridge for particulates and Sulfur Dioxide.							
Other Protective Item	15:					resistant protective clothin		
		required. Ensure that eyewash stations and safety showers are proximal to the						
		work-station location.						
		Health (B	lue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)	
HMIS Classification:	HMIS Classification: 3 0 1 See Abo						See Above	
Hazard Classification: 0 = Minimal 1=Slight 2= Moderate 3= Serious 4= Severe								

SDS NO. 204 Effective Date: April 17, 2015 Revision Date: Page 2 of 4

IX. Physical and Chemical Properties								
Physical State:	Liquid	pH:	14					
Appearance:	Clear to amber liquid	Molecular Weight:	93.3-102.5					
Odor:	Slight	Odor Threshold:	No Data Available					
Specific Gravity:(H ₂ O=1)	1.48 to 1.55 @ 77°F/25°C	Weight per Gallon:	12.3 to 12.9 lbs.					
			@ 77°F/25°C					
Vapor Density: (Air=1)	Similar to Water	Vapor Pressure:	Similar to Water					
Boiling Point:	228°F to 244°F (108°C to	Freezing/Melting Point:	24.8°F to 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:	Mixture with strong acids produces considerable heat.					
Incompatible Materials:	Avoid contact with the following: copper, tin, zinc, aluminum, and their alloys.					
Hazardous products of	None					
Decomposition:						

XI. Toxicological Information										
Routes of Entry:	Routes of Entry:									
Sign and symptoms	of Expos	ure:	May caus	e irrita	ion to ey	es, skin	and re	espitatory	passa	iges.
Eye Contact:	Causes s	erious e	ye damage.							
Ingestion:	May cau	se burns	to mouth,	throat,	and stom	nach.				
Skin Contact:	Causes s	evere sk	in burns.							
Inhalation:	May irri	tate resp	iratory tra	ct.						
Carcinogenicity:	NPT	Not List	ed	IARC	Not Lis	sted		OSHA	N	lot Regulated
Ingredient Name:	Species Test Route Results									
Sodium Hydroxide	•	Rabbit 1350 mg/kg dermal LD 50					LD 50			
Comments:				•						

XII. Ecological Information									
Ingredient Name: Species Test Period Results									
Sodium Aluminate		Western Mosquitofish	111mg/L	96 hrs	LC 50				
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 Aluminate Solution							
DOT Classification:	8							
Identification Number:	UN 1819	Packing Group:	II	Other Labels:	Corrosive			

SDS NO. 204 Effective Date: April 17, 2015 Revision Date: Page 3 of 4

XV. Regulatory Information							
Inventory S	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				
Japan ENCS	Yes	CERCLA (RQ)	1,000 lbs on dry weight basis as Sodium Hydroxide.				
Korean KECI	Yes	RCRA 261.33	Not Listed (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 Pressure Reactive			
	Internatio	nal Regulations:		Other Regulations:			
Canada WHMIS	Е	Corrosive		California PROP 65	Not Listed		
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:				
MSDS Replacements:	SII MSDS 001 - Sodium Aluminate 45%, SII MSDS 003 - Sodium Aluminate 43%, SII			
	MSDS 004 - Sodium Aluminate 38%.			

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

Although the information contained is offered in good faith, SUCH INFORMATION IS EXPRESSLY GIVEN WITHOUT ANY WARRANTY (EXPRESS OR IMPLIED) OR ANY GUARANTEE OF ITS ACCURACY OR SUFFICIENCY and is taken at the user's sole risk. User is solely responsible for determining the suitability of use in each particular situation. SII specifically DISCLAIMS ANY LIABILITY WHATSOEVER FOR THE USE OF SUCH INFORMATION, including without limitation any recommendation which user may construe and attempt to apply which may infringe or violate valid patents, licenses, and/or copyright.

SDS NO. 204 Effective Date: April 17, 2015 Revision Date: Page 4 of 4