SOUTHERN IONICS INCORPORATED (SII)
SAFETY DATA SHEET

SDS NO. 206
Effective Date: April 30, 2015
Revision Date: September 25, 2020

I. Product and Company Information

SII Product Name(s):	PHOS – SORB®	**Synonym:**	N/A
Chemical Name:	Sodium Aluminate Solution	**CAS Number:**	1302-42-7

Manufacturer's Name:
Southern Ionics Incorporated
579 Commerce Street
West Point, MS 39773
Customer Service: 1-800-953-3585
Web Site: **www.southernionics.com**

Emergency Contacts:
Afterhours (Southern Ionics):
1-888-610-2379
For Chemical Emergency, Spill, or Accident:
Call CHEMTREC at 1-800-424-9300
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, Category 1	Causes serious eye damage.
Corrosive to Metals, Category 1	May be corrosive to metals.

Signal Word:
Danger

Symbol(s):

Precautionary Statement(s):	
Prevention:	Wash affected body part thoroughly after handling.
	Wear eye and face protection.
	Wear protective gloves and clothing.
	Keep in original container.
Response:	IF SWALLOWED: Rinse mouth. Do not induce vomiting. Immediately seek medical advice.
	IF ON SKIN: Immediately remove all contaminated clothing. Rinse skin with water. 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(s):	**CAS Number(s):**	**%**
Sodium Aluminate	1302-42-7	26-29
Sodium Hydroxide	1310-73-2	11-14
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:	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:	Use extinguishing media appropriate for surrounding fire.			
Special Firefighting Procedure:	Wear NIOSH-approved, self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes.			

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 well-ventilated area. Keep container tightly closed when not in use.

VIII. Exposure Control / Personal Protective Equipment

Component Workplace Control Parameters:

Components:	CAS Number	Value	Parameters	Basis
Sodium Hydroxide	1310-73-2	TWA	2.0 mg/m^3	as Sodium Hydroxide

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.
General Hygiene:	Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet.
Personal Protection Equipment:	
Eye:	Use chemical splash goggles and face shield. Eye protection worn must be compatible with respiratory protection system employed.
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.
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)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	3	0	1	See Above
Hazard Classification: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe				

IX. Physical and Chemical Properties

Physical State:	Liquid	**pH:**	14
Appearance:	Clear to hazy, yellow to amber solution	**Molecular Weight:**	119.4
Odor:	Slight	**Odor Threshold:**	No Data Available
Specific Gravity: (H_2O=1)	1.47 @ 77°F / 25°C	**Weight per Gallon:**	12.2 lbs @ 77°F / 25°C
Vapor Density: (Air=1)	Similar to water	**Vapor Pressure:**	Similar to water
Boiling Point:	228°F / 108°C	**Freezing/Melting Point:**	3°F / -16°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 copper, tin, zinc, aluminum, and their alloys.
Hazardous Products of Decomposition:	None

XI. Toxicological Information

Routes of Entry:	☒ Eyes ☒ Skin ☒ Ingestion ☒ Inhalation						
Sign and Symptoms of Exposure:	May cause irritation to eyes, skin, and respiratory passages.						
Eye Contact:	Causes serious eye damage.						
Ingestion:	May cause burns to mouth, throat, and stomach.						
Skin Contact:	Causes severe skin burns.						
Inhalation:	May irritate respiratory tract.						
Carcinogenicity: Not Listed	**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 aluminate solution				
DOT Classification:	8				
Identification Number:	UN 1819	**Packing Group:**	II	**Other Labels:**	Corrosive
Comments:					

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
Japan ENCS	No	CERCLA (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 Pressure ☐ Reactive

International Regulations:			**Other Regulations:**	
EINECS	215-100-1		California PROP 65	Not Listed
Comments:				

XVI. Other Information

Other:	
Revision Notes:	01.09.18 Section I. Product and Company Information, SII Product Name: revised; Synonym: removed; Manufacturer's Name: revised address. Section IX. Physical and Chemical Properties, Appearance: revised (previous clear to amber liquid). 01.14.20 Section I. Product and Company Information, SII Product Name: revised to include the Certificate of Registration marking and updated SII logo. 09.25.20 Reviewed as part of a 3-year review process. Updated formatting.
MSDS Replacements:	

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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