



**SOUTHERN IONICS INCORPORATED (SII)**  
**SAFETY DATA SHEET**

SDS NO. 231  
Effective Date: July 12, 2016  
Revision Date:

**I. Product and Company Information**

<b>Product Name:</b>	Dry Alumina Trihydrate	<b>Synonym:</b>	Alumina Trihydrate, Hydrated Alumina
<b>Chemical Name:</b>	Aluminum Hydroxide	<b>CAS Number:</b>	21645-51-2
<b>Manufacturer's Name:</b> Southern Ionics Incorporated 579 Commerce Street 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> After hours (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**

<b>OSHA HCS / GHS Classification(s):</b>		<b>Hazard Statement(s):</b>	
Not classified under GHS Rules		May cause eye irritation.	
		May cause skin irritation.	
		May be harmful if swallowed.	
		May cause mild irritation of upper respiratory tract.	
<b>GHS Signal Word:</b>	<b>Precautionary Statement(s):</b>		
	<b>Prevention:</b>	See Section VIII. Personal Protective Equipment.	
<b>GHS Symbol(s):</b> Not Applicable	<b>Response:</b>	See Section IV. First Aid Measures.	

**III. Composition / Information on Ingredients**

<b>Chemical Name:</b>	<b>CAS Reg #'s</b>	<b>%</b>
Aluminum Hydroxide	21645-51-2	99.5

**IV. First Aid Measures**

<b>Eyes:</b>	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Check for and remove any contact lenses. Seek medical attention, if you feel unwell.
<b>Dermal / Skin:</b>	Remove contaminated clothing and wash exposed area thoroughly with soap and warm water. Seek medical attention, if you feel unwell.
<b>Inhalation:</b>	Move to fresh air immediately. If breathing is difficult, give oxygen. Seek medical attention, if you feel unwell.
<b>Ingestion:</b>	If swallowed, DO NOT induce vomiting. Rinse mouth. If conscious give ~9 ounces of water to dilute material. Seek medical attention, if you feel unwell.

<b>V. Fire Fighting Measures</b>				
<b>NFPA Hazard Rating:</b>	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)
	1	0	0	None
<b>NFPA Hazard Classification: 0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme</b>				
<b>Extinguishing Media:</b>	Use extinguishing media appropriate for surrounding fire.			
<b>Special Firefighting Procedure:</b>	Wear NIOSH-approved self-contained breathing apparatus (SCBA). Use water spray to keep containers cool and to knock down fumes.			

<b>VI. Accidental Release Measures</b>	
<b>Precaution if Spilled or Released:</b>	Avoid generating dust.
<b>Neutralizing Chemicals:</b>	None.

<b>VII. Handling and Storage</b>	
<b>Handling:</b>	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.
<b>Storage:</b>	Do not store this material near food, animal feed, or drinking water. Store in well-ventilated area. Store away from excessive heat (e.g., steam pipes, radiators) and from reactive materials. Keep container tightly closed when not in use and keep material dry.

<b>VIII. Exposure Control / Personal Protective Equipment</b>				
<b>Component Workplace Control Parameters:</b>				
<b>Components:</b>	<b>CAS-No.</b>	<b>Value</b>	<b>Parameters</b>	<b>Basis</b>
No Data Available				
<b>Engineering Controls:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dust below respective threshold limit value.			
<b>General Hygiene:</b>	Practice good personal hygiene after using this material, especially before eating, drinking, smoking, or using the toilet.			
<b>Personal Protection Equipment:</b>				
<b>Eye:</b>	Use safety glasses with side shields. Eye protection worn must be compatible with respiratory protection system employed.			
<b>Skin:</b>	Chemically resistant gloves should be worn whenever this material is handled.			
<b>Respiratory:</b>	None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator and cartridge for particulates.			
<b>Other Protective Items:</b>	Ensure that eyewash stations and safety showers are proximal to the work-station location.			
<b>HMIS Classification:</b>	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	1	0	0	See Above
<b>Hazard Classification: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe</b>				

### IX. Physical and Chemical Properties

<b>Physical State:</b>	Crystalline powder	<b>pH:</b>	8.5 - 10.2 (20 % in water)
<b>Appearance:</b>	White to off-white	<b>Molecular Weight:</b>	
<b>Odor:</b>	Odorless	<b>Odor Threshold:</b>	Not Applicable
<b>Specific Gravity:(H<sub>2</sub>O=1)</b>	See Other	<b>Weight per Gallon:</b>	Not Determined
<b>Vapor Density: (Air=1)</b>	Not Applicable	<b>Vapor Pressure:</b>	No Applicable
<b>Boiling Point:</b>	Not Applicable	<b>Freezing/Melting Point:</b>	Not Determined/ 572 °F (300° C)
<b>Lower Explosive Limit:</b>	Not Applicable	<b>Upper Explosive Limit:</b>	Not Applicable
<b>Flash Point:</b>	Not Applicable	<b>Autoignition Temp:</b>	Not Applicable
<b>Solubility in Water:</b>	Insoluble	<b>Bulk Density:</b>	Variable
<b>Other:</b>	Relative Density: 2.3 - 2.6		

### X. Stability and Reactivity Data

<b>Chemical Stability:</b>	Product is stable under normal or expected use.
<b>Conditions To Avoid:</b>	Heating the material above 392 °F/200 °C will result in a sudden release of water vapor (steam).
<b>Incompatible Materials:</b>	Avoid contact with strong acids and basis.
<b>Hazardous Products of Decomposition:</b>	No hazardous decomposition products are known.

### XI. Toxicological Information

<b>Routes of Entry:</b>	<input checked="" type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion <input checked="" type="checkbox"/> Inhalation					
<b>Sign and symptoms of Exposure:</b>	May cause irritation to eyes, skin, and respiratory passages.					
<b>Eye Contact:</b>	May cause irritation.					
<b>Ingestion:</b>	May be harmful if swallowed.					
<b>Skin Contact:</b>	May cause irritation.					
<b>Inhalation:</b>	May be harmful if inhaled. May cause respiratory tract irritation.					
<b>Carcinogenicity:</b>	<b>NPT</b>	Not Listed	<b>IARC</b>	Not Listed	<b>OSHA</b>	Not Regulated
<b>Ingredient Name:</b>	<b>Species</b>		<b>Test</b>		<b>Route</b>	<b>Results</b>
Aluminum hydroxide	Rat		5000 mg/kg		oral	LD50
<b>Comments:</b>						

### XII. Ecological Information

<b>Ingredient Name:</b>	<b>Species</b>	<b>Test</b>	<b>Period</b>	<b>Results</b>
No Data Available				
<b>Comments:</b>				

### 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>	Aluminum Hydroxide				
<b>DOT Classification:</b>	Not Regulated by USDOT				
<b>Identification Number:</b>		<b>Packing Group:</b>		<b>Other Labels:</b>	

### 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	Yes	CERCLA (RQ)	Not Listed
Korean KECI	Yes	RCRA 261.33	Not Listed
Philippines PICCS	Yes		
Australian AICS	Yes		
		SARA 311/312 <input type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive	
International Regulations:		Other Regulations:	
Canada WHMIS	Not Listed	California PROP 65	Not Listed
EINECS	244-492-7		

### XVI. Other Information

<b>NSF Certification:</b>	_____
<b>Other:</b>	_____
<b>Revision Notes:</b>	_____

**For Product Information:**  
 TEL: 662-494-3055  
 FAX: 662-494-2828

**SALES OFFICE**  
 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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