



SOUTHERN IONICS INCORPORATED (SII)
SAFETY DATA SHEET

SDS NO. 231
Effective Date: July 12, 2016
Revision Date: September 25, 2020

I. Product and Company Information

SII Product Name(s):	Alumina Trihydrate - Dry Hydrate	Synonym(s):	Alumina Trihydrate, Hydrated Alumina
Chemical Name:	Aluminum Hydroxide	CAS Number:	21645-51-2
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: 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

OSHA HCS / GHS Classification(s):	Hazard Statement(s):		
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.		
Signal Word: Not Applicable	Precautionary Statement(s):		
Symbol(s): Not Applicable	Prevention:	See Section VIII. Exposure Control / Personal Protective Equipment.	
	Response:	See Section IV. First Aid Measures.	

III. Composition / Information on Ingredients

Chemical Name(s):	CAS Number(s):	%
Aluminum Hydroxide	21645-51-2	99.5

IV. First Aid Measures

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Remove contact lenses if present and easy to do so. Seek medical attention, if you feel unwell.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and warm water. 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. If conscious give ~9 ounces of water to dilute material. Seek medical attention, if you feel unwell.

V. Fire Fighting Measures

NFPA Hazard Rating:	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)
	1	0	0	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:	Avoid generating dust.
Neutralizing Chemicals:	Not Applicable

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:	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 and keep material dry. Store away from excessive heat (e.g., steam pipes, radiators) and from reactive materials.

VIII. Exposure Control / Personal Protective Equipment

Component Workplace Control Parameters:				
Components:	CAS Number	Value	Parameters	Basis
No Data Available				
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of dust below 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 safety glasses with side shields. Eye protection worn must be compatible with respiratory protection system employed.			
Skin:	Chemically resistant gloves should be worn whenever this material is handled.			
Respiratory:	None required under normal conditions. When conditions warrant a respirator, use NIOSH-approved respirator and cartridge for particulates.			
Other Protective Items:	Ensure that eyewash stations and safety showers are proximal to the work location.			
HMIS Classification:	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	1	0	0	See Above
Hazard Classification: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe				

IX. Physical and Chemical Properties

Physical State:	Crystalline powder	pH:	8.5 - 10.2 (20 % in water)
Appearance:	White to off-white	Molecular Weight:	Not Data Available
Odor:	Odorless	Odor Threshold:	Not Applicable
Specific Gravity: (H₂O=1)	See Other	Weight per Gallon:	Not Data Available
Vapor Density: (Air=1)	Not Applicable	Vapor Pressure:	Not Applicable
Boiling Point:	Not Applicable	Freezing/Melting Point:	Not Determined/ 572 °F (300° C)
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable
Solubility in Water:	Insoluble	Bulk Density:	Variable
Other:	Relative Density: 2.3 - 2.6		

X. Stability and Reactivity Data

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

XI. Toxicological Information

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

XII. Ecological Information

Ingredient Name:	Species	Test	Period	Results
No Data Available				
Comments:				

XIII. Disposal Considerations

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

Proper Shipping Name:	Aluminum Hydroxide				
DOT Classification:	Not Regulated by USDOT				
Identification Number:	N/A	Packing Group:	N/A	Other Labels:	N/A
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	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
EINECS	244-492-7		Not Listed
Comments:			

XVI. Other Information

Other:	
Revision Notes:	07.28.17 Revised the name from Dry Trihydrate to be consistent. 09.25.20 Reviewed as part of a 3-year review process. Updated logo and formatting.

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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