



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

SDS NO. 220  
Effective Date: April 9, 2015  
Revision Date: September 25, 2020

### I. Product and Company Information

<b>SII Product Name(s):</b>	Zirconic® ZBS	<b>Synonym:</b>	Zirconium Oxide Sulfate
<b>Chemical Name:</b>	Zirconium Basic Sulfate	<b>CAS Number:</b>	62010-10-0
<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> 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

<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 be harmful if inhaled.		
<b>Signal Word:</b> Not Applicable	<b>Precautionary Statement(s):</b>		
<b>Symbol(s):</b> Not Applicable	<b>Prevention:</b>	See Section VIII. Exposure Control / Personal Protective Equipment	
		Wear protective gloves and clothing.	
	<b>Response:</b>	See Section IV. First Aid Measures	
		Absorb spillage to prevent material damage.	

### III. Composition / Information on Ingredients

<b>Chemical Name(s):</b>	<b>CAS Number(s):</b>	<b>%</b>
Zirconium Basic Sulfate	62010-10-0	>99

### IV. First Aid Measures

<b>Eyes:</b>	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Remove any contact lenses. Seek medical attention.
<b>Dermal / Skin:</b>	Remove contaminated clothing and wash exposed area thoroughly with soap and water for at least 15 minutes. 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. Seek medical attention if you feel unwell.

### V. Fire Fighting Measures

<b>NFPA Hazard Rating:</b>	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)
	1	0	0	
<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>	Heat from a fire near containers of this material may generate corrosive and irritating fumes. Solutions are acidic and corrosive to skin, eyes, and mucous membranes. Fire fighters should wear self-contained breathing apparatus and full protective clothing when fighting fires in the area of this material.			
<b>Unusual Fire &amp; Explosion Hazards:</b>	None			

### VI. Accidental Release Measures

<b>Precaution if Spilled or Released:</b>	Sweep up spilled material. If not reusable, neutralize and dispose according to Section XIII. Disposal Considerations.
<b>Neutralizing Chemicals:</b>	Neutralize with appropriate alkali, such as soda ash or lime.

### VII. Handling and Storage

<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 in unlined metal containers. Avoid contact with water. Do not store this material near food, animal feed, or drinking water. Store in well-ventilated area. Store away from excessive heat, and from reactive materials. Keep container tightly closed when not in use.

### VIII. Exposure Control / Personal Protective Equipment

<b>Component Workplace Control Parameters:</b>				
<b>Components:</b>	<b>CAS Number</b>	<b>Value</b>	<b>Parameters</b>	<b>Basis</b>
Zirconium Basic Sulfate	62010-10-0	TWA	5 mg/m <sup>3</sup>	OSHA, as zirconium metal
<b>Engineering Controls:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations below their 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 chemical splash goggles and face shield. 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. Workers should also wear protective clothing and equipment appropriate to the work situation to prevent repeated or prolonged skin contact.			
<b>Respiratory:</b>	Dust may be irritating and harmful. Repeated and prolonged exposure may result in respiratory irritation, pulmonary injury, or disease. Use appropriate NIOSH-approved respirator if exposure limit might be exceeded.			
<b>Other Protective Items:</b>	Wear impervious apron, if appropriate, to avoid getting material onto clothing. Ensure that eyewash stations and safety showers are proximal to the work location.			
<b>HMIS Classification:</b>	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	2	0	1	See PPE
<b>Hazard Classification: 0 = Minimal 1= Slight 2 = Moderate 3 = Serious 4 = Severe</b>				

### IX. Physical and Chemical Properties

<b>Physical State:</b>	Solid	<b>pH:</b>	2.0 - 2.5 (20% wt/wt in H <sub>2</sub> O)
<b>Appearance:</b>	White crystalline	<b>Molecular Weight:</b>	Not Determined
<b>Odor:</b>	None	<b>Odor Threshold:</b>	No Data Available
<b>Specific Gravity: (H<sub>2</sub>O=1)</b>	>1	<b>Weight per Gallon:</b>	See Bulk Density
<b>Vapor Density: (Air=1)</b>	No Data Available	<b>Vapor Pressure:</b>	No Data Available
<b>Boiling Point:</b>	Not Applicable	<b>Freezing/Melting Point:</b>	No Data Available
<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>	50 - 60 lb/ft <sup>3</sup>
<b>Other:</b>			

### X. Stability and Reactivity Data

<b>Chemical Stability:</b>	Product is stable under normal or expected use.
<b>Conditions to Avoid:</b>	Exposure to heat above 572°F (300°C) will liberate H <sub>2</sub> SO <sub>4</sub> mist and SO <sub>3</sub> gas.
<b>Incompatible Materials:</b>	Avoid contact with combustible materials, carbides, chlorates, nitrates, fulminates, picrates, metallic powders, sulfides, strong reducing agents, or strong alkalies.
<b>Hazardous Products of Decomposition:</b>	Temperatures in excess of 572°F (300°C) will release sulfur oxide fumes.

### 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 eye irritation.						
<b>Ingestion:</b>	May be harmful if swallowed.						
<b>Skin Contact:</b>	May cause skin irritation.						
<b>Inhalation:</b>	May be harmful if dust is inhaled. May cause respiratory tract irritation.						
<b>Carcinogenicity:</b>	Not Listed	<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>			
No Data Available							
<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>	This material cannot be directly disposed of in a landfill. First, slurry in water, then slowly neutralize with soda ash or lime. Neutralized slurry can be dewatered and the resulting solids may be disposed of in accordance with local, state, and federal regulations.
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#### XIV. Transportation Information

<b>Proper Shipping Name:</b>	Zirconium Basic Sulfate				
<b>DOT Classification:</b>	Not Regulated by USDOT				
<b>Identification Number:</b>		<b>Packing Group:</b>		<b>Other Labels:</b>	
<b>Comments:</b>					

#### XV. Regulatory Information

<b>Inventory Status:</b>		<b>US Regulations:</b>		
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	
Canadian NDSL	No	CERCLA (RQ)		
Japan MITI	Yes	RCRA 261		
Korean TCCL	Yes			
Philippines PICCS	Yes			
Australian AICS	Yes	SARA 311/312	<input checked="" type="checkbox"/> Acute <input type="checkbox"/> Chronic <input type="checkbox"/> Fire <input type="checkbox"/> Release of Pressure <input type="checkbox"/> Reactive	
<b>International Regulations:</b>			<b>Other Regulations:</b>	
Canada WHMIS	E	Corrosive material (corrosive to skin)	California PROP 65	Not Listed
EINECS	610-773-1			
<b>Comments:</b>				

#### XVI. Other Information

<b>Other:</b>	
<b>Revision Notes:</b>	09.25.20 Reviewed as part of a 3-year review process. Updated logo and formatting. Section VIII. Exposure Control / Personal Protective Equipment, CAS Number - corrected (incorrect - 7699-43-6, correct - 62010-10-0).
<b>MSDS Replacements:</b>	SII MSDS 051 ZIRCONIC® ZBS

#### 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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