



I. Product and Company Information

SII Product Name(s):	Zirconic® ZBS	Synonym:	Zirconium Oxide Sulfate
Chemical Name:	Zirconium Basic Sulfate	CAS Number:	62010-10-0
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):
Not classified under GHS Rules	May cause eye irritation.
	May cause skin irritation.
	May be harmful if swallowed.
	May be harmful if inhaled.
GHS Signal Word:	Precautionary Statement(s):
	Prevention: See Section VIII. Personal Protective Equipment
GHS Symbol(s):	Wear protective gloves and clothing.
	Response: See Section IV. First Aid Measures
	Absorb spillage to prevent material damage.

III. Composition / Information on Ingredients

Chemical Name:	CAS Reg #'s	%
Zirconium Basic Sulfate	62010-10-0	>99

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.
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)
	1	0	0	
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:	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.			
Unusual Fire & Explosion Hazards:	None.			

VI. Accidental Release Measures

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

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 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. Consult the appropriate SII Product Bulletin for storage recommendations.

VIII. Exposure Control / Personal Protective Equipment

Component Workplace Control Parameters:				
Components:	CAS-No.	Value	Parameters	Basis
Zirconium Basic Sulfate	7699-43-6	TWA	5 mg/m ³	OSHA (as zirconium metal)
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations 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:	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.			
Respiratory:	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.			
Other Protective Items:	Wear impervious apron if appropriate to avoid getting material onto clothing. Ensure that eyewash stations and safety showers are proximal to the work-station location.			

HMIS Classification:	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	2	0	1	See PPE
Hazard Classification: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe				

IX. Physical and Chemical Properties

Physical State:	Solid	pH:	2.0-2.5 (20% w/w in H ₂ O)
Appearance:	White crystalline	Molecular Weight:	Not Determined
Odor:	None	Odor Threshold:	No Data Available
Specific Gravity:(H₂O=1)	>1	Weight per Gallon:	See Bulk Density
Vapor Density: (Air=1)	No Data Available	Vapor Pressure:	No Data Available
Boiling Point:	Not Applicable	Freezing/Melting Point:	No Data Available
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable
Solubility in water:	Insoluble	Bulk Density :	50 – 60 lb/ft ³
Other:			

X. Stability and Reactivity Data

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

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 eye irritation.					
Ingestion:	May be harmful if swallowed.					
Skin Contact:	May cause skin irritation.					
Inhalation:	May be harmful if dust is inhaled. May cause respiratory tract irritation.					
Carcinogenicity:	NPT	Not Listed	IARC	Not Listed	OSHA	Not Regulated
Ingredient Name:	Species		Test		Route	Results
No Data Available						
Comments:						

XII. Ecological Information

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

XIII. Disposal Considerations

Waste Disposal:	This material cannot be direct 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

Proper Shipping Name:	Zirconium Basic Sulfate		
DOT Classification:	Not Regulated by USDOT		
Identification Number:		Packing Group:	Other Labels:
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
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
International Regulations:		Other Regulations:	
Canada WHMIS	E	Corrosive material (corrosive to skin)	California PROP 65 Not Listed
EINECS	610-773-1		

XVI. Other Information

NSF Certification:	
Other:	_____
Revision Notes:	_____
MSDS Replacements	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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