




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

SDS NO. 207  
Effective Date: April 17, 2015  
Revision Date: May 22, 2020

### I. Product and Company Information

<b>SII Product Name(s):</b>	Sodium Bisulfite Solution	<b>Synonym:</b>	SBS
<b>Chemical Name:</b>	Sodium Bisulfite Solution	<b>CAS Number:</b>	7631-90-5
<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>	
Acute Toxicity Oral, Category 4		Harmful if swallowed.	
Hazards Not Otherwise Classified - Respiratory		Sulfite sensitive individuals may experience an allergic reaction.	
<b>Signal Word:</b> Warning	<b>Precautionary Statement(s):</b>		
<b>Symbol(s):</b> 	<b>Prevention:</b>	Wash affected body parts after handling.	
		Do not eat, drink, or smoke when using this product.	
		Avoid breathing vapors.	
	<b>Response:</b>	IF SWALLOWED: Rinse mouth and seek medical attention, if you feel unwell.	
	IF INHALED: Remove victim to fresh air and keep comfortable for breathing. Seek medical attention, if you feel unwell.		
	For specific treatment see Section IV. First Aid Measures.		

### III. Composition / Information on Ingredients

<b>Chemical Name:</b>	<b>CAS Number:</b>	<b>%</b>
Sodium Bisulfite (NaHSO <sub>3</sub> )	7631-90-5	15 - 44
Sodium Sulfite (Na <sub>2</sub> SO <sub>3</sub> )	7757-83-7	< 1
Sodium Sulfate (Na <sub>2</sub> SO <sub>4</sub> )	7757-82-6	< 4
Water	7732-18-5	Balance

### 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, if you feel unwell.
<b>Dermal / Skin:</b>	Remove contaminated clothing and wash exposed area thoroughly with soap and 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. 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)
	2	0	1	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. CAUTION: when subjected to excess heat, product releases additional sulfur dioxide gas.			

## VI. Accidental Release Measures

<b>Precaution if Spilled or Released:</b>	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
<b>Neutralizing Chemicals:</b>	Neutralize with appropriate alkali, such as sodium hydroxide or soda ash. Avoid conditions where the pH of spilled material is maintained at lower than pH 6, since sulfur dioxide can be released at ambient temperatures below this pH.

## 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>	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

<b>Component Workplace Control Parameters:</b>				
<b>Components:</b>	<b>CAS Number</b>	<b>Value</b>	<b>Parameters</b>	<b>Basis</b>
Sodium Bisulfite	7631-90-5	TWA	5 mg/m <sup>3</sup>	solid sodium bisulfite (metabisulfite)
<b>Engineering Controls:</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors 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>	Chemical-resistant gloves should be worn whenever this material is handled. Gloves should be replaced immediately if there is any indication of degradation or chemical breakthrough.			
<b>Respiratory:</b>	None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator and cartridge for particulates and sulfur dioxide.			
<b>Other Protective Items:</b>	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.			
<b>HMIS Classification:</b>	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	2	0	1	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>	Liquid	<b>pH:</b>	3.5 - 5.0
<b>Appearance:</b>	Clear, colorless to pale yellow	<b>Molecular Weight:</b>	104.1 for NaHSO <sub>3</sub>
<b>Odor:</b>	Pungent odor	<b>Odor Threshold:</b>	No Data Available
<b>Specific Gravity: (H<sub>2</sub>O=1)</b>	1.13 - 1.38 @ 77°F / 25°C	<b>Weight per Gallon: (lbs)</b>	9.4 to 11.3 @ 77°F / 25°C
<b>Vapor Density: (Air=1)</b>	Similar to water	<b>Vapor Pressure:</b>	≤ 32 mm Hg total (12 mm Hg SO <sub>2</sub> ) @ 77°F / 25°C
<b>Boiling Point:</b>	217°F / 103°C (Estimated)	<b>Freezing/Melting Point:</b>	15.8°F / -9°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>	Dilutable	<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>	Avoid exposure to excessive heat.
<b>Incompatible Materials:</b>	Avoid contact with acids and oxidizing agents.
<b>Hazardous Products of Decomposition:</b>	Thermal decomposition may yield sulfur dioxide – toxic 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 mild skin irritation.						
<b>Inhalation:</b>	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>
Sodium Bisulfite Solution	Rat		2,000 mg/kg		Oral		LD50
<b>Comments:</b>	Sulfite sensitive individuals may experience an allergic reaction.						

## XII. Ecological Information

Ingredient Name:	Species	Test	Period	Results
Sodium Bisulfite Solution	Mosquitofish	240 ppm	96 hours	LC50
Sodium Bisulfite Solution	Mysid shrimp	111 mg/L	48 hours	LC50
Sodium Bisulfite Solution	Sheepshead minnow	117 mg/L	48 hours	LC50
<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>	Bisulfites, aqueous solution, n.o.s. (contains Sodium Bisulfite)				
<b>DOT Classification:</b>	8				
<b>Identification Number:</b>	UN 2693	<b>Packing Group:</b>	III	<b>Other Labels:</b>	Corrosive
<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
Japan ENCS	Yes	CERCLA (RQ)	5,000 lbs on dry weight basis for sodium bisulfite
Korean KECI	Yes	RCRA 261.33	Not Listed
Philippines PICCS	Yes	CAA-112-r	Not Listed
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>
EINECS	231-548-0		California PROP 65 <span style="margin-left: 20px;">Not Listed</span>
			FDA GRAS <span style="margin-left: 20px;">21 CFR 182.3739</span>
<b>Comments:</b>			

### XVI. Other Information

<b>Other:</b>	
<b>Revision Notes:</b>	<p>04.12.18 Section I. Product and Company Information, SII Product Name: added all products covered under the SDS. Section II. Hazard Identification: revised. Section XV. Regulatory Information, International Regulations: removed Canada information. Reclassified the product based on European Union &amp; Canadian Classification.</p> <p>09.11.18 Section I. Product and Company Information, SII Product Name: removed percentages 25%, 40%, 40% Technical Grade &amp; 43% from the SII Product Name.</p> <p>05.22.20 Section XII. Ecological Information: added Mysid shrimp and Sheepshead minnow. Corrected grammar. Updated logo and formatting.</p>
<b>MSDS Replacements:</b>	SII MSDS 048 Sodium Bisulfite Solution (15%-28%), SII MSDS 118 Sodium Bisulfite Solution, 30%, SII MSDS 024 Sodium Bisulfite Solution (38%-44%), and SII MSDS 054 SI-SBS 40

#### 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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