



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

SII Product Name(s):	Sodium Bisulfite Solution	Synonym:	SBS
Chemical Name:	Sodium Bisulfite Solution	CAS Number:	7631-90-5
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):	
Acute Toxicity Oral, Category 4		Harmful if swallowed.	
Hazards Not Otherwise Classified - Respiratory		Sulfite sensitive individuals may experience an allergic reaction.	
Signal Word:	Precautionary Statement(s):		
Warning	Prevention:	Wash affected body parts after handling.	
Symbol(s): 		Do not eat, drink, or smoke when using this product.	
		Avoid breathing vapors.	
	Response:	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

Chemical Name:	CAS Number:	%
Sodium Bisulfite (NaHSO_3)	7631-90-5	15 - 44
Sodium Sulfite (Na_2SO_3)	7757-83-7	< 1
Sodium Sulfate (Na_2SO_4)	7757-82-6	< 4
Water	7732-18-5	Balance

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, if you feel unwell.
Dermal / Skin:	Remove contaminated clothing and wash exposed area thoroughly with soap and 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. Seek medical attention, if you feel unwell.

V. Fire Fighting Measures				
NFPA Hazard Rating:	Health (Blue)	Fire (Red)	Reactivity (Yellow)	Special Instructions (White)
	2	0	1	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. CAUTION: when subjected to excess heat, product releases additional sulfur dioxide gas.			

VI. Accidental Release Measures	
Precaution if Spilled or Released:	Steps should be taken to contain spilled liquids and prevent discharges to streams or sewer systems.
Neutralizing Chemicals:	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	
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:	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				
Component Workplace Control Parameters:				
Components:	CAS Number	Value	Parameters	Basis
Sodium Bisulfite	7631-90-5	TWA	5 mg/m ³	solid sodium bisulfite (metabisulfite)
Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors 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:	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.			
Respiratory:	None required under normal conditions. When conditions warrant a respirator, use NIOSH approved respirator and cartridge for particulates and sulfur dioxide.			
Other Protective Items:	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.			
HMIS Classification:	Health (Blue)	Flammability (Red)	Physical Hazard (Yellow)	PPE (White)
	2	0	1	See Above
Hazard Classification: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe				

IX. Physical and Chemical Properties			
Physical State:	Liquid	pH:	3.5 - 5.0
Appearance:	Clear, colorless to pale yellow	Molecular Weight:	104.1 for NaHSO ₃
Odor:	Pungent odor	Odor Threshold:	No Data Available
Specific Gravity: (H₂O=1)	1.13 - 1.38 @ 77°F / 25°C	Weight per Gallon: (lbs)	9.4 to 11.3 @ 77°F / 25°C
Vapor Density: (Air=1)	Similar to water	Vapor Pressure:	≤ 32 mm Hg total (12 mm Hg SO ₂) @ 77°F / 25°C
Boiling Point:	217°F / 103°C (Estimated)	Freezing/Melting Point:	15.8°F / -9°C
Lower Explosive Limit:	Not Applicable	Upper Explosive Limit:	Not Applicable
Flash Point:	Not Applicable	Autoignition Temp:	Not Applicable
Solubility in Water:	Dilutable	Other:	

X. Stability and Reactivity Data	
Chemical Stability:	Product is stable under normal or expected use.
Conditions To Avoid:	Avoid exposure to excessive heat.
Incompatible Materials:	Avoid contact with acids and oxidizing agents.
Hazardous Products of Decomposition:	Thermal decomposition may yield sulfur dioxide – toxic fumes.

XI. Toxicological Information							
Routes of Entry:	☒ Eyes ☒ Skin ☒ Ingestion ☒ 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 mild skin irritation.						
Inhalation:	May cause respiratory tract irritation.						
Carcinogenicity: Not Listed	NPT	Not Listed	IARC	Not Listed	OSHA	Not Regulated	
Ingredient Name:	Species		Test		Route		Results
Sodium Bisulfite Solution	Rat		2,000 mg/kg		Oral		LD50
Comments:	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
Comments:				

XIII. Disposal Considerations	
Waste Disposal:	Always dispose of material in accordance with local, state, and federal regulations.

XIV. Transportation Information					
Proper Shipping Name:	Bisulfites, aqueous solution, n.o.s. (contains Sodium Bisulfite)				
DOT Classification:	8				
Identification Number:	UN 2693	Packing Group:	III	Other Labels:	Corrosive
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)	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	☒ Acute ☐ Chronic ☐ Fire ☐ Release of Pressure ☐ Reactive
International Regulations:			Other Regulations:
EINECS	231-548-0		California PROP 65 Not Listed
			FDA GRAS 21 CFR 182.3739
Comments:			

XVI. Other Information

Other:	
Revision Notes:	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 & Canadian Classification. 09.11.18 Section I. Product and Company Information, SII Product Name: removed percentages 25%, 40%, 40% Technical Grade & 43% from the SII Product Name. 05.22.20 Section XII. Ecological Information: added Mysid shrimp and Sheepshead minnow. Corrected grammar. Updated logo and formatting.
MSDS Replacements:	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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