SOUTHERN IONICS INCORPORATED (SII)
SAFETY DATA SHEET

SDS NO. 210
Effective Date: April 30, 2015
Revision Date: September 25, 2020

I. Product and Company Information

SII Product Name:	Sodium Thiosulfate Solution (30% and 40%)	**Synonym(s):**	STS, Thio
Chemical Name:	Sodium Thiosulfate Solution	**CAS Number:**	7772-98-7

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.

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

III. Composition / Information on Ingredients

Chemical Name(s):	**CAS Number(s):**	**%**
Sodium Thiosulfate	7772-98-7	29 - 49
Water	7732-18-5	Balance

IV. First Aid Measures

Eyes:	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Check for and 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. If conscious give 4 to 8 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. 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:	None

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
No Data Available				

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 removed and 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 should be worn. 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:	Liquid	**pH:**	8.0 - 11.0
Appearance:	Clear, colorless to pale yellow	**Molecular Weight:**	158.1 $Na_2S_2O_3$
Odor:	Sulfur like	**Odor Threshold:**	No Data Available
Specific Gravity: (H_2O=1)	1.26 - 1.50 @ 77°F/25°C	**Weight per Gallon:**	10.5 to 12.5 @ 77°F/25°C
Vapor Density: (Air=1)	No Data Available	**Vapor Pressure:**	No Data Available
Boiling Point:	217°F/103°C Estimated	**Freezing/Melting Point:**	14°F/-10°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 of dried materials and contact with strong acids.
Incompatible Materials:	Avoid contact with strong acids.
Hazardous Products of Decomposition:	If dried material is overheated, 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 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**
No Data Available				
Comments:				

XII. Ecological Information

Ingredient Name:	**Species**	**Test**	**Period**	**Results**
Sodium Thiosulfate	Daphnia magna	520 mg/L	48 hours	NOEC
Comments:				

XIII. Disposal Considerations

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

XIV. Transportation Information

Proper Shipping Name:	Sodium Thiosulfate Solution				
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	No	CERCLA (RQ)	Not Listed
Korean KECI	Yes	RCRA 261.33	Not Listed
Philippines PICCS	Yes		
Australian AICS	Yes	SARA 311/312	☒ Acute ☐ Chronic ☐ Fire ☐ Release of Pressure ☐ Reactive

International Regulations:			**Other Regulations:**	
EINECS	231-867-5		California PROP 65	Not Listed
			FDA - GRAS	21 CFR 184.1807
Comments:				

XVI. Other Information

Other:	
Revision Notes:	04.12.20 Section I. Product Name and Company Information: added all products covered under the SDS. Section IX. Physical and Chemical Properties, Appearance: revised wording. Section XV. Regulatory Information, International Regulations: removed Canada references. 09.25.20 Reviewed as part of a 3-year review process. Updated logo and formatting.
MSDS Replacements:	SII MSDS 037 Sodium Thiosulfate Solution, SII MSDS 079 Sodium Thiosulfate Solution (39% -49%), and SII MSDS 106 Sodium Thiosulfate, 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

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