

SAFETY DATA SHEET

Creation Date 03-Feb-2010	reation Date03-Feb-2010Revision Date25-Sep-2014		
	1. Identification		
Product Name	Sodium thiosulfate pentahydrate solutions	s 0.025N to 1N	
Cat No. :	SS364-1; SS364-4; SS364-20; SS368-1; SS SS371-1; SS817-1; SS817-4; SS817-20; SS		
Synonyms	Thiosulfuric acid, disodium salt pentahydrate solutions (Certified)	
Recommended Use	Laboratory chemicals.		
Uses advised against Details of the supplier of the sa	No Information available afety data sheet		
Company Fisher Scientific	Emergency Telephone Number		

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements
None required

Hazards not otherwise classified (HNOC)

None identified

Unknown Acute Toxicity

.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	75 - 99.375
Sodium thiosulfate pentahydrate	10102-17-7	0.625 - 25

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.		
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.		
Ingestion	Do not induce vomiting. Obtain medical attention.		
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically		

5. Fire-fighting measures				
Suitable Extinguishing Media	Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.			
Unsuitable Extinguishing Media	No information available			
Flash Point Method -	Not applicable No information available			
Autoignition Temperature Explosion Limits	No information available			
Upper	No data available			
Lower	No data available			
Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t No information available No information available			

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

Sodium oxides Sulfides Sulfur oxides

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 1	Flammability 0	Instability 0	Physical hazards N/A		
	6. Accidental release measures				
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.				
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information.				

Methods for Containment and Clean Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Up

	7. Handling and storage
Handling	Wear personal protective equipment. Ensure adequate ventilation. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.		
Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Relative Density
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition temperature
Viscosity

Liquid Colorless Odorless No information available No information available 0 °C / 32 °F 100 °C / 212 °F Not applicable > 1 (Ether = 1.0) No information available

No data available No data available 14 mmHg No information available 1.0 - 1.1 Soluble in water No data available No information available No information available No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under normal conditions.		
Conditions to Avoid	Incompatible products. Excess heat.		
Incompatible Materials	Acids, Metals, Powdered metal salts		
Hazardous Decomposition Products Sodium oxides, Sulfides, Sulfur oxides			
Hazardous Polymerization	Hazardous polymerization does not occur.		

Hazardous Reactions	None under normal processing.		
	11. Toxicological information		
Acute Toxicity			
Product Information Oral LD50 Dermal LD50 Vapor LC50 Component Information Toxicologically Synergistic Products Delayed and immediate effects a	No acute toxicity information is available for this product Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 20 mg/l. No information available		
Irritation	May cause eye, skin, and respiratory tract irritation		
Sensitization	No information available		
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.		

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed	
Sodium thiosulfate pentahydrate	10102-17-7	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effects		No information available.					
Developmental Effe	cts	No information available.					
Teratogenicity No information available.							
STOT - single exposure STOT - repeated exposure		None known None known					
Aspiration hazard	No information available						
Symptoms / effects delayed	ymptoms / effects,both acute and No information available elayed						
Endocrine Disrupto	r Information	tion No information available					
Other Adverse Effect	Adverse Effects The toxicological properties have not been fully investigated. See actual entry in RT complete information.			entry in RTECS fo			

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12.	F CO	iodicai	information

<u>Ecotoxicity</u>	
Do not empty into drains.	

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium thiosulfate pentahydrate	Not listed	Pimephales promelas: LC50>10000mg/L/96h	Not listed	Not listed
Persistence and Degrada	bility No informatic	on available		

Persistence and Degradability

Bioaccumulation/ Accumulation No information available.

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Mobility

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15 Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	Х	Х	-	231-791-2	-		Х	-	Х	Х	Х
Sodium thiosulfate pentahydrate	-	Х	-	-	-		Х	-	Х	Х	-

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

No No No No

U.S. Federal Regulations

TSCA 12(b)	Not applicable
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SARA 313	Not applicable
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SARA 311/312 Hazardous Categorization	
Acute Health Hazard	
Chronic Health Hazard	
Fire Hazard	
Sudden Release of Pressure Hazard	
Reactive Hazard	

Clean Water Act Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know	Not appl	cable							
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island				
Water	-	-	Х	-	-				
J.S. Department of Tran	sportation								
Reportable Quantity (RQ)	: N								
DOT Marine Pollutant	Ν								
DOT Severe Marine Pollu	tant N								
U.S. Department of Hom This product does not con		ıls.							
Other International Regu	ulations								
Mexico - Grade	No inform	No information available							
Canada This product has been c the MSDS contains all th			d criteria of the Contro	olled Products Re	egulations (CPR) and				
WHMIS Hazard Class	Non-con	trolled							
		16. Other in	formation						
Prepared By		ory Affairs							
		Thermo Fisher Scientific							
	Email: E	MSDS.RA@thermo	ofisher.com						
Creation Date	03-Feb-2	2010							
Revision Date	25-Sep-2	2014							
Print Date	25-Sep-2								
Revision Summary			dated to comply with th tion under 29 CFR 191						

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

Harmonized System of Classification and Labeling of Chemicals (GHS)

End of SDS