

## SAFETY DATA SHEET

Creation Date 03-Feb-2010

Revision Date 13-Oct-2023

Revision Number 5

	1. Identification					
Product Name Sodium thiosulfate pentahydrate solutions 0.025N to 1N						
Cat No. :	SS364-1; SS364-4; SS364-20; SS368-1; SS368-4; SS368-20; SS370-1; SS371-1; SS817-1; SS817-4; SS817-20; SS817-500; T003681000; T003701000					
Synonyms	Thiosulfuric acid, disodium salt pentahydrate solutions (Certified)					
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.					

#### Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

#### Emergency Telephone Number

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)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements
None required

<u>Hazards not otherwise classified (HNOC)</u> None identified

### 3. Composition/Information on Ingredients

Component		CAS No	Weight %				
Water		7732-18-5	75 - 99.375				
Sodium thiosulfate pentahy	/drate	10102-17-7	0.625 - 25				
	4.	First-aid measures					
Eye Contact	Rinse immed medical atter	liately with plenty of water, also under th tion.	ne eyelids, for at least 15 minutes. Get				
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reasonably foreseeable.						
Notes to Physician	Treat symptomatically						
	5. Fi	re-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	t No information available
Sensitivity to Static Discharge	No information available

#### **Specific Hazards Arising from the Chemical**

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

#### **Hazardous Combustion Products**

Sulfides. Sulfur oxides. Sodium 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.

<u>NFPA</u> Health 1	Flammability 0	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions	Use personal protective eo Should not be released int Information.	quipment as required. Ensure ac o the environment. See Section	Jequate ventilation. 12 for additional Ecological

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Up

	7. Handling and storage						
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.						
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Acids. Metals. Finely powdered metals.						
8. E	xposure controls / personal protection						
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.						
Engineering Measures	None under normal use conditions.						
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.						
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.						
Recommended Filter type:	Particle filter.						
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.						

### 9. Physical and chemical properties

	7.1 Hysical and chernical properties
Physical State	Liquid
Appearance	Colorless
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	0 °C / 32 °F
Boiling Point/Range	100 °C / 212 °F
Flash Point	Not applicable
Evaporation Rate	> 1 (Ether = 1.0)
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	14 mmHg
Vapor Density	No information available
Specific Gravity	1.0 - 1.1
Solubility	Soluble in water
Partition coefficient; n-octanol/wa	ter No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

			10. Stab	ility a	and rea	activity				
Reactive Hazard			None known, base	lone known, based on information available						
Stability			Stable under norm	ial condi	tions.					
Conditions to Avoid	i		Incompatible produ	ucts. Exe	cess heat.					
Incompatible Mater	Incompatible Materials Acids, Metals, Finely powdered metals									
Hazardous Decomposition Products Sulfides, Sulfur oxides, Sodium oxides										
Hazardous Polymer	ization		Hazardous polyme	erization	does not	occur.				
Hazardous Reaction	าร		None under norma	None under normal processing.						
			11. Toxico	ologio	cal info	ormation				
Acute Toxicity										
Product Information Oral LD50 Dermal LD50 Vapor LC50 Component Informa			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.							
Componen			LD50 Oral			LD50 Dermal	LC50	Inhalation		
Water			-			-		-		
Products	Delayed and immediate effects as well as chronic effects from short and long-term exposure									
Sensitization			No information ava							
Carcinogenicity			The table below in	dicates	whether e	ach agency has list	ed any ingredient	as a carcinogen.		
Component	CAS N	0	IARC	N	NTP	ACGIH	OSHA	Mexico		
Water	7732-18		Not listed		t listed	Not listed	Not listed	Not listed		
Sodium thiosulfate pentahydrate	10102-17	(-/	Not listed	Not	t listed	Not listed	Not listed	Not listed		
Mutagenic Effects			No information ava	ailable						
Reproductive Effect	ts		No information ava	ailable.						
Developmental Effe	cts		No information ava	ailable.						
Teratogenicity			No information ava	ailable.						
STOT - single expos STOT - repeated ex			None known None known							
Aspiration hazard			No information available							
Symptoms / effects delayed	s,both acute	e and	No information ava	ailable						
Endocrine Disrupto	r Informatio	on	No information ava	ailable						
Other Adverse Effe	cts		The toxicological p	The toxicological properties have not been fully investigated.						

### 12. Ecological information

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea					
Sodium thiosulfate	Not listed	Pimephales promelas:	Not listed	Not listed					
pentahydrate		LC50>10000mg/L/96h							
Persistence and Degrada	bility Soluble in w	Soluble in water Persistence is unlikely based on information available.							
Bioaccumulation/ Accum	Bioaccumulation/ Accumulation No information available.								
Mobility	. Will likely l	be mobile in the environment	due to its water solubility	<i>.</i>					
	13. Disposal considerations								
Waste Disposal Methods         Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.									
	14.	Transport informa	ition						
DOT	Not regulate	ed							
TDG									
ΙΑΤΑ	Not regulate	Not regulated							
IMDG/IMO	Not regulate	ed							
	15. F	Regulatory information	ation						

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Water	7732-18-5	Х	ACTIVE	-
Sodium thiosulfate pentahydrate	10102-17-7	-	-	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

#### TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Water	7732-18-5	Х	-	231-791-2	Х	Х		Х	Х	KE-35400
Sodium thiosulfate pentahydrate	10102-17-7	Х	-	-	Х	Х	X	Х	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

Not applicable **SARA 313** 

SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-

<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Water	7732-18-5	-	-	-
Sodium thiosulfate pentahydrate	10102-17-7	-	-	-

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Water	7732-18-5	Listed	Not applicable	Not applicable	Not applicable
Sodium thiosulfate pentahydrate	10102-17-7	Listed	Not applicable	Not applicable	Not applicable

### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### **Other International Regulations**

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Water	7732-18-5	Not applicable	Not applicable	Not applicable	Not applicable
Sodium thiosulfate pentahydrate	10102-17-7	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	03-Feb-2010 13-Oct-2023 13-Oct-2023 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).	

Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

### **End of SDS**