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Revision Number 3

# SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification

Product Description:	Sodium thiosulfate, 0.1N solution in water
Cat No. :	J/7950/17, J/7950/21, J/7950/15, J/7950/24

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended UseLaboratory chemicals.Uses advised againstNo Information available

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

Company

E-mail address

Fisher Scientific UK Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom begel.sdsdesk@thermofisher.com

# 1.4. Emergency telephone number

Tel: 01509 231166 Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

# **SECTION 2: HAZARDS IDENTIFICATION**

# 2.1. Classification of the substance or mixture

# CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Based on available data, the classification criteria are not met

## **Environmental hazards**

Based on available data, the classification criteria are not met

Classification according to EU Directives 67/548/EEC or 1999/45/EC R-phrase(s) None

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

2.2. Label elements

### Hazard Statements

#### Sodium thiosulfate, 0.1N solution in water

# **Precautionary Statements**

#### 2.3. Other hazards

No information available

# **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.2. Mixtures

Component	CAS-No	EC-No.	Weight %	CLP Classification - Regulation (EC) No 1272/2008	DSD Classification - 67/548/EEC
Sodium thiosulfate	7772-98-7	231-867-5	< 5	-	-
Water	7732-18-5	231-791-2	> 95	-	-
Component		Reach Registration Number			
Sodium thiosulf	ate		01-21195	31537-38	

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16.

# **SECTION 4: FIRST AID MEASURES**

## 4.1. Description of 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.
Ingestion	Do not induce vomiting. Obtain medical attention.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
Protection of First-aiders	No special precautions required.
4.2. Most important symptoms and	effects, both acute and delayed
	No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

# **SECTION 5: FIREFIGHTING MEASURES**

#### 5.1. Extinguishing media

#### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

# Extinguishing media which must not be used for safety reasons

No information available.

#### 5.2. Special hazards arising from the substance or mixture

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

#### Hazardous Combustion Products Sulfur oxides. 5.3. Advice for firefighters

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

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

#### 6.2. Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

#### 6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

# 7.1. Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

#### 7.2. Conditions for safe storage, including any incompatibilities

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

### 7.3. Specific end use(s)

Use in laboratories

# **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1. Control parameters

#### Exposure limits

List source(s):

	Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
S	odium thiosulfate	MAC: 10 mg/m <sup>3</sup>				

# **Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Monitoring methods BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

1	osure	Acute effects (local)	Acute effects	Chronic effects	Chronic effects
Oral Dermal Inhalatio			(systemic)	(local)	(systemic)
Predicted No Effect ( (PNEC)	Concentration	No information availab	le.		
8.2. Exposure contro	ols_				
Engineering Measure None under normal us					
Personal protective of Eye Protection Hand Protection	equipment	Safety glasses with sic Protective gloves	le-shields (European	standard - EN 166)	
Glove material Natural rubber Nitrile rubber Neoprene PVC	Breakthroug See manufac recommenda	turers -	es EU standard EN 374		omments requirement)
Skin and body pr	otection	Wear appropriate prote	ective gloves and cloth	ing to prevent skin expo	osure
(Refer to manufacture	structions regard r/supplier for inf table for the tasl	c: Chemical compatabilit	-	al conditions, User sus	-
sensitisation effects, a of cuts, abrasion.		nsideration the specific long to the specific long	ocal conditions under v	which the product is use	
	are avoiding ski				
sensitisation effects, a of cuts, abrasion. Remove gloves with c	are avoiding ski ection ncy use	n contamination. No protective equipme	nt is needed under no r European Standard ation or other symptom <b>type:</b> Particle filter	rmal use conditions. EN 136 approved respir	d, such as the dange
sensitisation effects, a of cuts, abrasion. Remove gloves with c <b>Respiratory Prote</b> Large scale/emergen	are avoiding ski ection ncy use	n contamination. No protective equipme Use a NIOSH/MSHA o are exceeded or if irrita <b>Recommended Filter</b> Maintain adequate ver	nt is needed under no r European Standard ation or other symptom <b>type:</b> Particle filter tilation	rmal use conditions. EN 136 approved respir	ed, such as the dange
sensitisation effects, a of cuts, abrasion. Remove gloves with c <b>Respiratory Prote</b> Large scale/emergen Small scale/Laborato	are avoiding ski ection acy use ory use	n contamination. No protective equipme Use a NIOSH/MSHA o are exceeded or if irrita <b>Recommended Filter</b> Maintain adequate ver	nt is needed under no r European Standard ation or other symptom <b>type:</b> Particle filter tilation with good industrial hy	rmal use conditions. EN 136 approved respir is are experienced	ed, such as the dange

Appearance Physical State	Liquid
Odor	No information available
Odor Threshold	No data available
pH	No data available

#### Sodium thiosulfate, 0.1N solution in water

Melting Point/Range	No data available	
Softening Point	No data available	
Boiling Point/Range	No information available	
Flash Point	No information available	Methe
Evaporation Rate	No data available	
Flammability (solid,gas)	Not applicable	Liquic
Explosion Limits	No data available	
Vapor Pressure	No data available	
Vapor Density	No data available	(Air =
Specific Gravity / Density	1.0-1.12	
Bulk Density	Not applicable	Liquic
Water Solubility	soluble	
Solubility in other solvents	No information available	
Partition Coefficient (n-octanol/v	vater)	
Component	log Pow	
Sodium thiosulfate	-4.35	
Autoignition Temperature	No data available	
Decomposition Temperature	No data available	
Viscosity	No data available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

9.2. Other information

#### nod - No information available

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# **SECTION 10: STABILITY AND REACTIVITY**

10.1. Reactivity

None known, based on information available

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

10.4. Conditions to avoid

Incompatible products. Excess heat. 10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Sulfur oxides.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

### 11.1. Information on toxicological effects

## **Product Information**

(a) acute toxicity;

Based on available data, the classification criteria are not met Oral No data available Dermal Inhalation No data available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium thiosulfate	5000 mg/kg (Rat)		

(b) skin corrosion/irritation;	No data available
(c) serious eye damage/irritation;	No data available
(d) respiratory or skin sensitization; Respiratory Skin	No data available No data available
(e) germ cell mutagenicity;	No data available
(f) carcinogenicity;	No data available There are no known carcinogenic chemicals in this product
(g) reproductive toxicity;	No data available
(h) STOT-single exposure;	No data available
(i) STOT-repeated exposure;	No data available
Target Organs	None known.
(j) aspiration hazard;	No data available

Symptoms / effects,both acute and No information available delayed

# **SECTION 12: ECOLOGICAL INFORMATION**

# 12.1. Toxicity

Ecotoxicity effects

Do not empty into drains.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium thiosulfate	24000 mg/L LC50 96 h			

#### 12.2. Persistence and degradability Persistence

Sodium thiosulfate, 0.1N solution in water

Soluble in water, Persistence is unlikely, based on information available.

12.3. Bioaccumulative potential	Bioaccumulation is unlikely	
Component	log Pow	Bioconcentration factor (BCF)
Sodium thiosulfate	-4.35	No data available
<u>12.4. Mobility in soil</u>	The product is water soluble, and may spread environment due to its water solubility. Highly	, ,
12.5. Results of PBT and vPvB assessment	No data available for assessment.	
12.6. Other adverse effects Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential	This product does not contain any known or su This product does not contain any known or su This product does not contain any known or su	uspected substance

# **SECTION 13: DISPOSAL CONSIDERATIONS**

### 13.1. Waste treatment methods

Waste from Residues / Unused	Chemical waste generators must determine whether a discarded chemical is classified as a
Products	hazardous waste. Consult local, regional, and national hazardous waste regulations to

	ensure complete and accurate classification.			
Contaminated Packaging	Empty remaining contents. Dispose of in accordance with local regulations. Do not re-use empty containers.			
European Waste Catalogue (EWC)	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.			
Other Information	Waste codes should be assigned by the user based on the application for which the product was used.			

# **SECTION 14: TRANSPORT INFORMATION**

## IMDG/IMO

Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

Sodium thiosulfate, 0.1N solution in water

<u>ADR</u>

Not regulated

14.1. UN number_
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

# <u>IATA</u>

Not regulated

14.1. UN number
14.2. UN proper shipping name
14.3. Transport hazard class(es)
14.4. Packing group

14.5. Environmental hazards No hazards identified

14.6. Special precautions for user No special precautions required

14.7. Transport in bulk according to Not applicable, packaged goods Annex II of MARPOL73/78 and the IBC Code

# **SECTION 15: REGULATORY INFORMATION**

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

International Inventories X = listed

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Sodium thiosulfate	231-867-5	-		Х	Х	-	Х	Х	Х	Х	Х
Water	231-791-2	-		Х	Х	-	Х	-	Х	Х	Х

# **National Regulations**

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class		
Sodium thiosulfate	WGK 1			

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment.

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

## 15.2. Chemical safety assessment

## A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

# **SECTION 16: OTHER INFORMATION**

# Full text of R-phrases referred to under sections 2 and 3

Not applicable

#### Legend

CAS - Chemical Abstracts Service EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances PICCS - Philippines Inventory of Chemicals and Chemical Substances IECSC - Chinese Inventory of Existing Chemical Substances VECL	Substances List ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances WEL - Workplace Exposure Limit ACGIH - American Conference of Governmental Industrial Hygienists DNEL - Derived No Effect Level RPE - Respiratory Protective Equipment LC50 - Lethal Concentration 50% NOEC - No Observed Effect Concentration PBT - Persistent, Bioaccumulative, Toxic	NZIOC - New Zealand Inventory of Chemicals TWA - Time Weighted Average IARC - International Agency for Research on Cancer PNEC - Predicted No Effect Concentration LD50 - Lethal Dose 50% EC50 - Effective Concentration 50% POW - Partition coefficient Octanol:Water vPvB - very Persistent, very Bioaccumulative
ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code OECD - Organisation for Economic Co-operation and Development BCF - Bioconcentration factor Key literature references and sources for data	ICAO/IATA - International Civil Aviation Organization/International Air Transport Association MARPOL - International Convention for the Prevention of Pollution from Ships ATE - Acute Toxicity Estimate VOC - Volatile Organic Compounds

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

#### Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

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Revision Summary	Update to Format.

# This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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.

# **End of Safety Data Sheet**