

according to Regulation (EC) No 1907/2006

Sodium thiosulfate anhydrous for analysis

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ECTION 1: Identification of the	substance/mixture and of the com	npany/undertaking	
.1. Product identifier			
Sodium thiosulfate anhydrous	for analysis		
REACH Registration Number:	01-2119531537-38-XXXX		
CAS No:	7772-98-7		
EC No:	231-867-5		
.2. Relevant identified uses of the	substance or mixture and uses advise	ed against	
	ances as such or in preparations at indu ain (administration, education, entertair		
		iment, services, cransmen)	
Uses advised against			
Do not use for private purpose	X ,		
.3. Details of the supplier of the sa			
Company name:	AnalytiChem GmbH		
Street:	Stempelstraße 6		
Place:	D-47167 Duisburg		
Telephone:	0203/5194-0	Telefax:0203/5194-290	
E-mail:	info@analytichem.de	Telephene: 0202/5404 407/447	
Contact person: E-mail:	Abteilung Produktsicherheit	Telephone:0203/5194-107/117	
E-mail. Internet:	produktsicherheit@analytichem.de www.analytichem.de		
Responsible Department:	Abteilung Produktsicherheit		
	•	euro Caadal Incidente Chill Laak Fina	
.4. Emergency telephone umber:	Exposure, or Accident Call CHEMT	rous Goods] Incidents Spill, Leak, Fire, REC Day or Night Within USA and Canad Canada: +1 703-741-5970 (collect calls	a:

### Further Information

No data available

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### Regulation (EC) No 1272/2008

This substance is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

### 2.2. Label elements

## 2.3. Other hazards

No data available

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

Sum formula:	Na2O3S2
Molecular weight:	158,11 g/mol



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#### **Relevant ingredients**

CAS No	Chemical name			Quantity	
	EC No	Index No		REACH No	
	Classification (Regulation (EC) No	1272/2008)			
7772-98-7	sodium thiosulphate				100 %
	231-867-5				

### Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE					
CAS No	EC No	Chemical name	Quantity		
	Specific Conc.	Limits, M-factors and ATE			
7772-98-7	231-867-5	sodium thiosulphate	100 %		
	dermal: LD50	= > 2000 mg/kg; oral: LD50 = > 5000 mg/kg			

#### **Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

### **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### **General information**

No data available

### After inhalation

Provide fresh air.

#### After contact with skin

Wash immediately with: Water Take off immediately all contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing.

#### After ingestion

Rinse mouth immediately and drink plenty of water. Call a doctor if you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

No data available

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

No data available

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### Unsuitable extinguishing media no restriction

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

Non-combustible solids Hazardous combustion products In case of fire may be liberated:



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Sulphur oxides

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers.

### **SECTION 6: Accidental release measures**

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

### For non-emergency personnel

Provide adequate ventilation. Use personal protection equipment. Avoid contact with skin, eyes and clothes. Remove persons to safety.

Emergency procedures

Do not breathe dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### 6.2. Environmental precautions

No special environmental measures are necessary.

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

### For containment

Cover drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Collect in closed and suitable containers for disposal. Take up carefully when dry. Take up dust-free and set down dust-free.

#### For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

#### Other information

Provide adequate ventilation. Do not breathe dust/fume/gas/mist/vapours/spray. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

Handle and open container with care. Provide adequate ventilation. Avoid contact with skin, eyes and clothes. Avoid dust formation. Do not breathe dust.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.



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#### Further information on handling

Take off contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

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

### Requirements for storage rooms and vessels

Keep container tightly closed and dry.

Hints on joint storage

No data available

## Further information on storage conditions

storage temperature: +5°C - +30°C

### 7.3. Specific end use(s)

Laboratory chemicals

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### **DNEL/DMEL** values

CAS No	Substance		-		
DNEL type		Exposure route	Effect	Value	
7772-98-7	sodium thiosulphate				
Worker DNEL,	Worker DNEL, long-term inhalation systemic 374 mg/m³				
Consumer DNEL, long-term		inhalation	systemic	110 mg/m <sup>3</sup>	
Consumer DNEL, long-term		oral	systemic	14 mg/kg bw/day	

#### **PNEC** values

CAS No	Substance		
Environmental compartment Value			
7772-98-7	72-98-7 sodium thiosulphate		
Freshwater 0,8 mg/l			
Marine water		0,08 mg/l	
Micro-organisms in sewage treatment plants (STP) 102,6 mg/l			

#### 8.2. Exposure controls

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):



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By long-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with permanent contact: > 480 min

By short-term hand contact Trade name/designation: KCL 741 Dermatril® L Recommended material: NBR (Nitrile rubber) 0,11 mm Wearing time with occasional contact (splashes): > 480 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

#### Skin protection

Wear suitable protective clothing. Take off immediately all contaminated clothing. Wash hands before breaks and after work.

### **Respiratory protection**

Respiratory protection necessary at: dust formation Filtering device with filter or ventilator filtering device of type: P1

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

1. Information on basic physical and che	mical properties	
Physical state:	solid	
Colour:	colourless	
Odour:	odourless	
Odour threshold:	not determined	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		not determined
boiling range:		
Flammability:		not determined
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		not applicable
Auto-ignition temperature:		not applicable
Decomposition temperature:		>300 °C
pH-Value (at 20 °C):		6,0 - 8,5 (50 g/l)
Viscosity / kinematic:		not determined
Water solubility:		701 g/L
(at 20 °C)		
Solubility in other solvents		
not determined		
Dissolution rate:		not determined
Partition coefficient n-octanol/water:		log Pow: -4,35
Dispersion stability:		not determined
Vapour pressure:		not determined
Vapour pressure:		not determined
Density (at 20 °C):		1,67 g/cm³



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Relative density:	not determined	
Bulk density:	~1350 kg/m³	
Relative vapour density:	not determined	
Particle characteristics:	not determined	
9.2. Other information		
Information with regard to physical ha	azard classes	
Explosive properties		
not determined		
Sustaining combustion:	No data available	
Self-ignition temperature		
Solid:	not determined	
Gas:	not applicable	
Oxidizing properties		
not determined		
Other safety characteristics		
Evaporation rate:	not determined	
Solvent separation test:	not determined	
Solvent content:	not determined	
Solid content:	100%	
Sublimation point:	not determined	
Softening point:	not determined	
Pour point:	not determined	
not determined:		
Viscosity / dynamic:	not determined	
Flow time:	not determined	
Further Information		
not determined		

not determined

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Oxidising agent

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Oxidising agent, strong Fluorine Acid Nitrite, Nitrate Peroxides

## 10.4. Conditions to avoid

Heat

# 10.5. Incompatible materials

No data available

# 10.6. Hazardous decomposition products

In case of fire may be liberated: Sulphur oxides

#### Further information

No data available



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### **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicocinetics, metabolism and distribution

No data available

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
7772-98-7	sodium thiosulphate						
		LD50 > 500 mg/kg	00	Rat	Study report (1996)	OECD Guideline 401	
		LD50 > 200 mg/kg	00	Rabbit	Study report (1996)	OECD Guideline 402	

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met. No data available

#### Information on likely routes of exposure

not determined

#### Specific effects in experiment on an animal

No data available

### Additional information on tests

No data available

#### Practical experience No data available

#### 11.2. Information on other hazards

### Endocrine disrupting properties

not determined

# Other information

No data available

# Further information

No data available

### **SECTION 12: Ecological information**

### 12.1. Toxicity

Based on available data, the classification criteria are not met.



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CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
7772-98-7	sodium thiosulphate						_
	Acute algae toxicity	ErC50 mg/l	> 100	72 h	Pseudokirchneriella subcapitata	Study report (2010)	OECD Guideline 201
	Acute crustacea toxicity	EC50	230 mg/l	48 h	Daphnia magna	Study report (1986)	other: Bionomics protocol for static acu
	Fish toxicity	NOEC mg/l	>= 316	34 d	Danio rerio	Study report (2010)	OECD Guideline 210
	Crustacea toxicity	NOEC mg/l	> 10	21 d	Daphnia magna	Study report (1993)	OECD Guideline 211
	Acute bacteria toxicity	EC50 mg/l()	> 1000	3 h	activated sludge of a predominantly domestic sewag	Study report (2010)	OECD Guideline 209

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

log Pow: -4,35

No indication of bioaccumulation potential.

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

#### 12.7. Other adverse effects

Do not empty into drains.

### **Further information**

Discharge into the environment must be avoided.

### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. Send to a physico-chemical treatment facility under observation of official regulations. Do not empty into drains.

### Contaminated packaging

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.



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14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
Marine transport (IMDG)					
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
Air transport (ICAO-TI/IATA-DGR)					
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.				
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.				
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.				
14.4. Packing group:	No dangerous good in sense of this transport regulation.				
14.5. Environmental hazards					
ENVIRONMENTALLY HAZARDOUS:	No				
14.6. Special precautions for user					
No dangerous good in sense of this t					
14.7. Maritime transport in bulk according	to IMO instruments				
not applicable					
SECTION 15: Regulatory information					
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture				
EU regulatory information					
Information according to Directive 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)				
National regulatory information					
Water hazard class (D):	1 - slightly hazardous to water				
SECTION 16: Other information					
Changes					
-	n the previous version in section(s): 9,12.				
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#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

### **Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.



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The receiver of our product is singularly responsible for adhering to existing laws and regulations.