# SIGMA-ALDRICH

1.

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 Version 5.0 Revision Date 30.05.2012 Print Date 29.04.2013 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

#### IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product identifiers Product name	:	Sodium thiosulfate pentahydrate	
	Product Number Brand CAS-No.	::	72050 Fluka 10102-17-7	
1.2	1.2 Relevant identified uses of the substance or mixture and uses advised again			
	Identified uses	:	Laboratory chemicals, Manufacture of substances	
1.3	Details of the supplier of the safety data sheet			
	Company	:	Sigma-Aldrich Chemie GmbH Industriestrasse 25 CH-9471 BUCHS	
	Telephone Fax E-mail address	:	+41 81-755-2511 +41 81-756-5449 eurtechserv@sial.com	
1.4	er			
	Emergency Phone #	:	+41 81-755-2255 145(CH)	

#### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not classified as dangerous according to Directive 67/548/EEC.

+41 44-251-5151 (Tox-Zentrum)

#### 2.2 Label elements

This substance is not classified as dangerous according to Directive 67/548/EEC.

#### 2.3 Other hazards - none

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1Substances<br/>Formula:Na2O3S2 ⋅ 5H2O<br/>Molecular WeightMolecular Weight:248,18 g/mol

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

#### In case of skin contact

Wash off with soap and plenty of water.

#### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

- **4.2** Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- **4.3** Indication of any immediate medical attention and special treatment needed no data available

#### 5. FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

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

- 5.2 Special hazards arising from the substance or mixture Sulphur oxides, Sodium/sodium oxides Nature of decomposition products not known. Sulphur oxides, Sodium oxides
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- **5.4 Further information** The product itself does not burn.

#### 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal precautions, protective equipment and emergency procedures** Avoid dust formation. Avoid breathing vapors, mist or gas.
- 6.2 Environmental precautions Do not let product enter drains.
- **6.3** Methods and materials for containment and cleaning up Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

#### 7. HANDLING AND STORAGE

- **7.1 Precautions for safe handling** Provide appropriate exhaust ventilation at places where dust is formed.
- **7.2 Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
- 7.3 Specific end uses no data available

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

#### Components with workplace control parameters

8.2 Exposure controls

**Appropriate engineering controls** General industrial hygiene practice.

#### Personal protective equipment

#### **Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Immersion protection Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 480 min Material tested:Dermatril® (Aldrich Z677272, Size M)

Splash protection Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: > 30 min Material tested:Dermatril® (Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 873000, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an Industrial Hygienist familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### **Body Protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

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

a)	Appearance	Form: crystalline Colour: colourless	
b)	Odour	odourless	
c)	Odour Threshold	no data available	
d)	рН	no data available	
e)	Melting point/freezing point	no data available	
f)	Initial boiling point and boiling range	no data available	
g)	Flash point	not applicable	
h)	Evaporation rate	no data available	
i)	Flammability (solid, gas)	no data available	
j)	Upper/lower flammability or explosive limits	no data available	
k)	Vapour pressure	no data available	
I)	Vapour density	no data available	

m)	Relative density	no data available			
n)	Water solubility	no data available			
o)	Partition coefficient: n- octanol/water				
p)	Autoignition temperature	no data available			
q)	Decomposition temperature	no data available			
r)	Viscosity	no data available			
s)	Explosive properties	no data available			
t)	Oxidizing properties	no data available			
no d	er safety information data available				
ST/	ABILITY AND REACTIVI	ГҮ			
	<b>activity</b> data available				
	emical stability data available				
	<b>ssibility of hazardous re</b> data available	actions			
	nditions to avoid data available				
	ompatible materials lium nitrate, acids, Strong	oxidizing agents, Incompatible with:, iodides, Silver salts, mercury salts, Lead			
	ardous decomposition er decomposition product				
то		ATION			
Infc	ormation on toxicologica	al effects			
	ute toxicity 50 Intravenous - rat - > 2.8	500 mg/kg			
	n corrosion/irritation data available				
	<b>ious eye damage/eye ir</b> ı data available	ritation			
	<b>spiratory or skin sensiti</b> z data available	zation			
	r <b>m cell mutagenicity</b> data available				
Car	cinogenicity				
IAR		f this product present at levels greater than or equal to 0.1% is identified as le or confirmed human carcinogen by IARC.			
	broductive toxicity data available				
-	ecific target organ toxici data available	ty - single exposure			

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no data available

#### Aspiration hazard

no data available

#### Potential health effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

#### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

	thoroughly investigated.							
	Additional Information RTECS: Not available							
12.	ECOLOGICAL INFORMATION							
12.1	<b>Toxicity</b> no data available							
12.2	Persistence and degradability no data available							
12.3	Bioaccumulative potential no data available							
12.4	<b>Mobility in soil</b> no data available							
12.5	Results of PBT and vPvB assessment no data available							
12.6	Other adverse effects no data available							
13.	DISPOSAL CONSIDERATIONS							
13.1	Waste treatment methods							
	<b>Product</b> Offer surplus and non-recyclable solutions to a licensed disposal company.							
	<b>Contaminated packaging</b> Dispose of as unused product.							
14.	TRANSPORT INFORMATION							
14.1	<b>UN number</b> ADR/RID: -	IMDG: -	IATA: -					
14.2	UN propershipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods							
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -					
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -					
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no					

## **14.6** Special precautions for user no data available

### 15. REGULATORY INFORMATION

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

- **15.1** Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- **15.2 Chemical Safety Assessment** no data available

#### 16. OTHER INFORMATION

#### **Further information**

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.