Safety Data Sheet

according to Regulation (EU) 2015/830 Date of issue: 01/06/2022 Version: 0.0 Doc No: SDS-969.162/2



SECTION 1: Identification of the sul	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Sodium thiosulfate, anhydrous
EC-No.	: 231-867-5
CAS-No.	: 7772-98-7
Type of product	: Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only
Formula	\therefore Na ₂ O ₃ S ₂
Chemical structure	$2Na^{+}\begin{bmatrix}S\\\\\vdots\\\\O\\\vdots\\\\O\end{bmatrix}^{2-}\\\vdots\\\\O\end{bmatrix}^{2-}$
Synonyms	: ametox (=sodium thiosulfate) / antichlor (=sodium thiosulfate) / chlorine control / chlorine cure / declor-IT / disodium thiosulfate / HYPO (=sodium thiosulfate) / prismatic rice / S-hydril / sodium hyposulfite / sodium hyposulfite / sodium oxide sulfide / sodium thiosulfate / sodium thiosulfate / sodium thiosulfate) / thiosulfate) / thiosulfuric acid (H2S2O3), disodium salt / thiosulfuric acid disodium salt
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Use of the substance/mixture	: Funigant Fungicide Insecticide Nematicide Brake fluid Sowing-seed disinfectant Laboratory chemical
1.2.2. Uses advised against	
No additional information available	

1.3. Details of the supplier of the safety data sheet

ISOLAB Laborgeräte GmbH Am Dillhof 2 - 63863 Eschau / GERMANY Tel: + 49 93 74 / 978 55-0 Fax: +49 93 74 / 978 55-29 prodsafe@isolab.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 30 19240	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP] Not classified

Adverse physicochemical, human health and environmental effects No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP] No labelling applicable

2.3. (C	th	er	ha	zar	ds	
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No additional information available

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SECTION 3: Composition/information on ingredients 2.4

3.1. Substances		
Name	Product identifier	%
Sodium thiosulfate, anhydrous	(CAS-No.) 7772-98-7 (EC-No.) 231-867-5	100

Full text of H-statements: see section 16

3.2. **Mixtures**

Not applicable

SECT	ION 4: First aid measures	
4.1.	Description of first aid measures	
	d measures general	: If you feel unwell, seek medical advice.
	d measures after inhalation	: Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.
	d measures after skin contact	: Rinse with water. Take victim to a doctor if irritation persists.
	d measures after eye contact	: Rinse with water. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation
	-	persists.
First-ai	d measures after ingestion	 Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Call Poison Information Centre (www.big.be/antigif.htm). Consult a doctor/medical service if you feel unwell.
4.2.	Most important symptoms and ef	fects, both acute and delayed
Sympto	ms/effects after inhalation	: AFTER INHALATION OF DUST: Coughing.
Sympto	ms/effects after eye contact	: Slight irritation.
Sympto	ms/effects after ingestion	: AFTER ABSORPTION OF HIGH QUANTITIES: Vomiting. Nausea. Diarrhoea.
4.3.	Indication of any immediate medi	cal attention and special treatment needed
No add	itional information available	
SECT	ION 5: Fire-fighting measure	S
5.1.	Extinguishing media	
Suitable	e extinguishing media	: Adapt extinguishing media to the environment.
	ble extinguishing media	: No unsuitable extinguishing media known.
5.2.	Special hazards arising from the	substance or mixture
Fire ha		: DIRECT FIRE HAZARD. Non combustible. INDIRECT FIRE HAZARD. Reactions involving a
		fire hazard: see "Reactivity Hazard".
Explosi	on hazard	: DIRECT EXPLOSION HAZARD. In dry state: Fine dust is explosive with air. INDIRECT EXPLOSION HAZARD. Dust cloud can be ignited by a spark. Reactions with explosion hazards: see "Reactivity Hazard".
5.3.	Advice for firefighters	
Precau	tionary measures fire	: Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
Firefigh	ting instructions	: Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray.
Protect	ion during firefighting	: Heat/fire exposure: compressed air/oxygen apparatus.
SECT	ION 6: Accidental release me	asures
6.1.		equipment and emergency procedures
6.1.1.	For non-emergency personnel	
-	ive equipment	: Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus.
1101000		Reactivity hazard: compressed air/oxygen apparatus. Reactivity hazard: gas-tight suit. See "Material-Handling" to select protective clothing.
Emerge	ency procedures	: Mark the danger area. Prevent dust cloud formation. No naked flames. Keep containers closed. Wash contaminated clothes. In case of hazardous reactions: keep upwind. In case of reactivity hazard: consider evacuation.
Measu	es in case of dust release	: In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. Dust production: stop engines and no smoking. In case of dust production: no naked flames or sparks. Dust: spark-/explosionproof appliances/lighting equipment.
6.1.2.	For emergency responders	
No add	itional information available	
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6.2. **Environmental precautions** No additional information available Methods and material for containment and cleaning up 6.3. : Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. For containment Knock down/dilute dust cloud with water spray. If reacting: dilute toxic gas/vapour with water spray. Take account of toxic/corrosive precipitation water. Powdered form: no compressed air for pumping over spills. Stop dust cloud by covering with sand/earth. Scoop solid spill into closing containers. Methods for cleaning up Powdered: do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. 6.4. Reference to other sections No additional information available **SECTION 7: Handling and storage** 7.1. Precautions for safe handling : Comply with the legal requirements. Remove contaminated clothing immediately. Clean Precautions for safe handling contaminated clothing. Thoroughly clean/dry the installation before use. Powdered form: no compressed air for pumping over. Avoid raising dust. Keep away from naked flames/heat. Finely divided: spark- and explosionproof appliances. Finely divided: keep away from ignition sources/sparks. Observe normal hygiene standards. Keep container tightly closed. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. 7.2. Conditions for safe storage, including any incompatibilities : KEEP SUBSTANCE AWAY FROM: heat sources. ignition sources. Heat and ignition sources KEEP SUBSTANCE AWAY FROM: oxidizing agents. (strong) acids. halogens. water/moisture. Information on mixed storage Storage area Store in a dry area. Meet the legal requirements. Special rules on packaging SPECIAL REQUIREMENTS: closing, watertight, dry, clean, correctly labelled, meet the legal requirements. Secure fragile packagings in solid containers. Packaging materials SUITABLE MATERIAL: No data available. MATERIAL TO AVOID: No data available. 7.3. Specific end use(s) No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Materials for protective clothing:

GIVE GOOD RESISTANCE: natural rubber. nitrile rubber. neoprene. PVC

Hand protection:

Gloves

Eye protection:

Safety glasses. In case of dust production: protective goggles

Skin and body protection:

Protective clothing

Respiratory protection:

Dust production: dust mask with filter type P1

SECTION 9: Physical and chemical properties		
9.1. Information on basi	Information on basic physical and chemical properties	
Physical state	: Solid	
Appearance	: Crystalline solid. Crystalline powder. Grains.	
Molecular mass	: 158.11 g/mol	
Colour	: Colourless to white.	
Odour	: Odourless.	
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Odour threshold	: No data available
рН	: 6.0 - 8.5 (50 g/l, H₂O, 20 °C)
pH solution	: 5%
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: Not applicable
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 223 °C
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: 1.7
Density	: 1.67 g/cm3 (20 °C)
Solubility	: Decomposes on exposure to water. Insoluble in organic solvents. Water: 70.1 g/100ml
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
VOC content	: Not applicable
Other properties	: Hygroscopic. Substance has basic reaction.

SECTION 10: Stability and reactivity

10.1. Reactivity

Decomposes slowly on exposure to water (moisture): release of toxic/combustible gases/vapours (hydrogen sulphide). On heating: release of toxic/combustible gases/vapours (hydrogen sulphide, sodium sulphide). On burning: release of toxic and corrosive gases/vapours (sulphur oxides). And release of corrosive products. Violent to explosive reaction with (strong) oxidizers. Reacts with (some) acids: release of toxic and corrosive gases/vapours (sulphur dioxide).

10.2. Chemical stability

Unstable on exposure to moisture.

10.3. Possibility of hazardous reactions

No additional information available 10.4. Conditions to avoid No additional information available 10.5. Incompatible materials No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information		
: Not classified		
> 5000 mg/kg (Rat)		
: Not classified		
pH: 7.8 (10 %)		
: Not classified		
pH: 7.8 (10 %)		

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Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information	n
12.1. Toxicity	
Ecology - air	: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009).
Ecology - water	: Mild water pollutant (surface water). Maximum concentration in drinking water: 250 mg/l (sulfate) (Directive 98/83/EC); 200 mg/l (sodium) (Directive 98/83/EC). Not harmful to fishes (LC50(96h) >1000 mg/l).
Sodium thiosulfate, anhydrous (7772-98-7)	

Sodium thiosulfate, anhydrous (7772-98-7)	
LC50 fish 1	2400 mg/l (LC50; 96 h)

12.2. Persistence and degradability		
Sodium thiosulfate, anhydrous (7772-98-7)		
Persistence and degradability	Biodegradability: not applicable.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
12.3. Bioaccumulative potential		

Sodium thiosulfate, anhydrous (7772-98-7)	
Bioaccumulative potential	No bioaccumulation data available.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations : Recycle/reuse.		
Additional information	: Can be considered as non hazardous waste according to Directive 2008/98/EC.	

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN numbe	er		•	
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport	hazard class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.5. Environmental hazards				
Not applicable Not applicable Not applicable Not applicable		Not applicable		
No supplementary information available				

14.6. Special precautions for user

- Overland transport

Not applicable

- Transport by sea

Not applicable

- Air transport

Not applicable

- Inland waterway transport

Not applicable

- Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. Safety, nealth and environmental requiations/legislation specific for the substance or mixture	15.1.	Safety, health and environmental regulation	s/legislation specific for the substance or mixture
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15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Sodium thiosulfate, anhydrous is not on the REACH Candidate List Sodium thiosulfate, anhydrous is not on the REACH Annex XIV List

VOC content

: Not applicable

15.1.2. National regulations

Germany

VwVwS Annex reference

12th Ordinance Implementing the Federal

Immission Control Act - 12.BImSchV

WGK remark

- : Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 1 or 2; ID No. 386)
- : Classification water polluting in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 2)
- : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: The substance is not listed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and	d acronyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road

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ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
ΙΑΤΑ	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
S-1	

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product