

⊢⊑ Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Issue date:26/02/2020 Revision date: 26/02/2025 : Version: 1.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture

Trade name : SODIUM THIOSULFATE SOLN 0.1N

Product code : 219156x
Formula : Na2S2O3

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

Recommended uses and restrictions : For laboratory use only

1.3. Supplier's details

Labchem (Pty)Ltd 6 Wakefield Road Founders Hill 1609 Johannesburg - South Africa T +27 11 452 1116 - F +27 86 588 0293 techlab@labchem.co.za - www.labchem.co.za

1.4. Emergency telephone number

Emergency number : +27 11 452 1116

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 3 H316

Full text of H statements : see section 16

2.2. Label elements

Labelling according to the United Nations GHS

Signal word (GHS-ZA) : Warning

Hazard statements (GHS-ZA) : H316 - Causes mild skin irritation

Precautionary statements (GHS-ZA) : P332+P313 - If skin irritation occurs: Get medical advice/attention.

2.3. Other hazards

Adverse physicochemical, human health and

environmental effects

: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice, Causes mild skin irritation

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to the United Nations GHS
water	(CAS-No.) 7732-18-5	> 97.5	Not classified
sodium thiosulfate	(CAS-No.) 10102-17-7	< 2.5	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
chloroform	(CAS-No.) 67-66-3	< 0.05	Flam. Liq. Not classified Acute Tox. 4 (Oral), H302 Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Carc. 2, H351 STOT RE 1, H372 Aquatic Acute 3, H402

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get

medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after skin contact : Irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of

: Toxic fumes may be released.

fire

5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No additional information available

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure

: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact

with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

chloroform (67-66-3)	
South Africa - Occupational Exposure Limits (Recommended Limits)	
Local name	Chloroform (Trichloromethane)
OEL TWA (mg/m³)	10 mg/m³
OEL TWA (ppm)	2 ppm
Remark	Sk
Regulatory reference	Government Notice. R: 1179

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves

Eye protection : Chemical goggles or safety glasses. Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):

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8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Appearance : Translucent. Colour : Colourless. : chloroform-like. Odour Odour threshold No data available No data available pΗ pH solution No data available Relative evaporation rate (butylacetate=1) : No data available Relative evaporation rate (ether=1) No data available Melting point : Not applicable Freezing point : No data available : No data available Boiling point No data available Flash point Auto-ignition temperature No data available No data available Decomposition temperature : Not applicable Flammability (solid, gas) Vapour pressure No data available Vapour pressure at 50 °C No data available : No data available Relative vapour density at 20 °C : No data available Relative density Relative density of saturated gas/air mixture : No data available Density : No data available Relative gas density No data available Solubility : Miscible with water. Partition coefficient n-octanol/water (Log Pow) : No data available Partition coefficient n-octanol/water (Log Kow) : No data available Viscosity, kinematic No data available Viscosity, dynamic : No data available : No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits**

Upper explosive limit (UEL) 9.2. Other information

Lower explosive limit (LEL)

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

: No data available

: No data available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

chloroform (67-66-3)	
LD50 oral rat	908 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male, Experimental value, Oral)
LD50 dermal rabbit	> 3980 mg/kg bodyweight (24 h, Rabbit, No reliable data available, Dermal)

Skin corrosion/irritation : Causes mild skin irritation.

Serious eye damage/irritation : Not classified 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

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Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-

term (acute)

: Not classified

Hazardous to the aquatic environment, long-

term (chronic)

Bioaccumulative potential

: Not classified

chloroform (67-66-3)		
LC50 fish 1	18.2 ppm (ASTM, 96 h, Oncorhynchus mykiss, Flow-through system, Fresh water, Experimental value)	
ErC50 (algae)	13.3 mg/l (Other, 72 h, Chlamydomonas reinhardtii, Static system, Fresh water, Experimental value)	
BCF fish 1	4.1 – 13 (OECD 305: Bioconcentration: Flow-Through Fish Test, 42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	1.97 (Experimental value, 20 °C)	
Partition coefficient n-octanol/water (Log Koc)	1.8 – 2.6 (log Koc, Other, Experimental value)	
12.2. Persistence and degradability		
SODIUM THIOSULFATE SOLN 0.1N		
Persistence and degradability	No additional information available	
chloroform (67-66-3)		
Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.	
ThOD	0.33 – 1.35 g O ₂ /g substance	
BOD (% of ThOD)	0.015 – 0.06	
12.3. Bioaccumulative potential		
SODIUM THIOSULFATE SOLN 0.1N		
Bioaccumulative potential	No additional information available	
chloroform (67-66-3)		
BCF fish 1	4.1 – 13 (OECD 305: Bioconcentration: Flow-Through Fish Test, 42 day(s), Cyprinus carpio, Flow-through system, Fresh water, Experimental value)	
Partition coefficient n-octanol/water (Log Pow)	1.97 (Experimental value, 20 °C)	
Partition coefficient n-octanol/water (Log Koc) 1.8 – 2.6 (log Koc, Other, Experimental value)		
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Low potential for bioaccumulation (BCF < 500).

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12.4. Mobility in soil	
SODIUM THIOSULFATE SOLN 0.1N	
Mobility in soil	No additional information available
chloroform (67-66-3)	
Surface tension	0.0271 N/m (20 °C)
Partition coefficient n-octanol/water (Log Pow)	1.97 (Experimental value, 20 °C)
Partition coefficient n-octanol/water (Log Koc)	1.8 – 2.6 (log Koc, Other, Experimental value)
Ecology - soil	Low potential for adsorption in soil. May be harmful to plant growth, blooming and fruit formation.
12.5 Other adverse effects	

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA	
14.1. UN number			
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)			
Not applicable	Not applicable	Not applicable	
Not applicable	Not applicable	Not applicable	
14.4. Packing group			
Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards			
Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	
	:		
No supplementary information available			

14.6. Special precautions for user

- SANS

No data available

- IMDG

No data available

- IATA

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code 14.7.

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health, and environmental national regulations specific for the product

: SANS 10234:2008; SANS 11014:2010; SANS 10228:2012; SANS 10229:2010; SANS Regulatory reference

10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National

Road Traffic Act 93 of 1996.

SECTION 16: Other information

: 26/02/2020 Issue date Revision date : 26/02/2025

Full text of H-statements:

H302	Harmful if swallowed.
H315	Causes skin irritation.
H316	Causes mild skin irritation

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H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life

SDS South Africa

The data provided in this Safety Data Sheet (SDS) is correct to the best of our knowledge. The data relates to the specific product as named and is ntended as a guide to the safe handling of the product in all its facets. The data may no longer be valid if the product is used in any process or in combination with other products. This SDS is not a quality specification nor any form of guarantee.

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