

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

Version: 1.0

1.1.       Product identifier         Product form       :       Mixture         Trade name       :       SODIUM THIOSULFATE SOLN 0.1N         Product code       :       219156x         Formula       :       Na2S203         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       food Mannesburg - South Africa       T + 27 14 52 1116 - F + 27 86 588 0293         Labchem co.za - www.labchem.co.za       1.4.       Emergency telephone number         Emergency telephone 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         2.1.       Label elements       :       Warning         Hazard statements (GHS-ZA)       :       Warning         Hazard statements (GHS-ZA)       :       Y316 - Causes mild skin irritation         <	SECTION 1: Identification	
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Adverse physicochemical, human health and : 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 Mixte 2.0

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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# SODIUM THIOSULFATE SOLN 0.1N Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:201	n
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4.2. Most important symptoms and eff Symptoms/effects after skin contact	: Irritation.
	cal attention and special treatment needed
4.3. Indication of any immediate media Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Suitable extinguishing media	
5.2. Special hazards arising from the s	
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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 me	asures
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 contain	ment 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	
<b>SECTION 7: Handling and storage</b> 7.1. Precautions for safe handling	
	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes.
7.1. Precautions for safe handling	with skin and eyes. Do not eat, drink or smoke when using this product. Always wash hands after handling the
7.1.         Precautions for safe handling           Precautions for safe handling           Hygiene measures	<ul> <li>with skin and eyes.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.</li> </ul>
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7.1.       Precautions for safe handling         Precautions for safe handling         Hygiene measures         7.2.       Conditions for safe storage, inclue         Storage conditions         SECTION 8: Exposure controls/per         8.1.       Control parameters         chloroform (67-66-3)         South Africa - Occupational Exposure Line         Local name         OEL TWA (mg/m³)         OEL TWA (ppm)         Remark         Regulatory reference         8.2.       Appropriate engineering controls         Appropriate engineering controls         B.3.       Individual protection measures, s         Hand protection	with skin and eyes.         : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.         ding any incompatibilities         : Store in a well-ventilated place. Keep cool.         rsonal protection         nits (Recommended Limits)         Chloroform (Trichloromethane)         10 mg/m³         2 ppm         Sk         Government Notice. R: 1179         : Ensure good ventilation of the work station.         : Avoid release to the environment.         uch as personal protective equipment (PPE)         : Protective gloves
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<ul> <li>7.1. Precautions for safe handling</li> <li>Precautions for safe handling</li> <li>Hygiene measures</li> <li>7.2. Conditions for safe storage, inclue Storage conditions</li> <li>SECTION 8: Exposure controls/per 8.1. Control parameters</li> <li>chloroform (67-66-3)</li> <li>South Africa - Occupational Exposure Line Local name</li> <li>OEL TWA (mg/m<sup>3</sup>)</li> <li>OEL TWA (ppm)</li> <li>Remark</li> <li>Regulatory reference</li> <li>8.2. Appropriate engineering controls</li> <li>Appropriate engineering controls</li> <li>Environmental exposure controls</li> <li>8.3. Individual protection measures, s</li> <li>Hand protection</li> <li>Eye protection</li> <li>Skin and body protection</li> </ul>	with skin and eyes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. ding any incompatibilities Store in a well-ventilated place. Keep cool.  rsonal protection  tris (Recommended Limits)  Chloroform (Trichloromethane) 10 mg/m <sup>a</sup> 2 ppm Sk Government Notice. R: 1179  Ensure good ventilation of the work station. Avoid release to the environment.  uch as personal protective equipment (PPE) Protective gloves Chemical goggles or safety glasses. Safety glasses Wear suitable protective clothing
7.1.       Precautions for safe handling         Precautions for safe handling         Hygiene measures         7.2.       Conditions for safe storage, inclu         Storage conditions         SECTION 8: Exposure controls/pet         8.1.       Control parameters         chloroform (67-66-3)         South Africa - Occupational Exposure Lin         Local name         OEL TWA (mg/m³)         OEL TWA (ppm)         Remark         Regulatory reference         8.2.       Appropriate engineering controls         Environmental exposure controls         8.3.       Individual protection measures, s         Hand protection         Eye protection	<ul> <li>with skin and eyes.</li> <li>Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.</li> <li>ding any incompatibilities <ul> <li>Store in a well-ventilated place. Keep cool.</li> </ul> </li> <li>rsonal protection <ul> <li>Chloroform (Trichloromethane)</li> <li>10 mg/m<sup>3</sup></li> <li>2 ppm</li> <li>Sk</li> <li>Government Notice. R: 1179</li> </ul> </li> <li>Ensure good ventilation of the work station. <ul> <li>Avoid release to the environment.</li> </ul> </li> <li>uch as personal protective equipment (PPE) <ul> <li>Protective gloves</li> <li>Chemical goggles or safety glasses. Safety glasses</li> </ul> </li> </ul>

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According to SANS 10234:2008 and SANS 11014:2010



8.4. Exposure limit values for the other components No additional information available

<b>SECTION 9: Physical and chemical</b>	properties
9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Appearance	: Translucent.
Colour	: Colourless.
Odour	: chloroform-like.
Odour threshold	: No data available
рН	: No data available
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
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
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
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosive limit (LEL)	: No data available
Upper explosive limit (UEL)	: No data available
9.2. Other information	

No additional information available

SECTION	ON 10: Stability and reactivity			
10.1.	Reactivity			
The prod	The product is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability			
Stable ur	Stable under normal conditions.			
10.3.	Possibility of hazardous reactions			
No dange	No dangerous reactions known under normal conditions of use.			
10.4.	Conditions to avoid			
None une	der recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials			
No additi	onal information available			

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According to SANS 10234:2008 and SANS 11014:2010

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

SECTION 11: Toxicological information		
11.1. Information on toxicological ef	fects	
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	

<b>SECTION 12: Ecological information</b>	1
12.1. Toxicity	
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)	: 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	$0.33 - 1.35 \text{ g O}_2/\text{g substance}$
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)
Bioaccumulative potential	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

SECT	ION 13: Disposal co	nsiderations
13.1.	Disposal methods	
Waste f	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	ΙΑΤΑ		
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				
Regulatory reference	10232(1,2,4), SAN	<ul> <li>SANS 10234:2008; SANS 11014:2010; SANS 10228:2012;SANS 10229:2010; SANS 10232(1,2,4), SANS 10231:2018; Occupational Health and Safety Act 85 of 1993; National Road Traffic Act 93 of 1996.</li> </ul>		
<b>SECTION 16: Other inform</b>	nation			
Issue date	: 26/02/2020			
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.