

According to SANS 10234:2008 and SANS 11014:2010 Issue date:12/03/2020 Revision date: 12/03/2025

Version: 1.0

15500	
SECTION 1: Identification	
I.1. Product identifier	
rade name	: DISODIUM TETRABORATE 10hydr
Chemical name	: disodium tetraborate decahydrate, borax decahydrate
C-No.	215-540-4
C Index-No.	: 005-011-01-1
AS-No.	: 1303-96-4
roduct code	: 119280xxx
ormula	: Na2B4O7.10H2O
.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
ecommended uses and restrictions	: For laboratory use only
.3. Supplier's details	, ,
abchem (Pty)Ltd	
Wakefield Road	
ounders Hill 609 Johannesburg - South Africa	
- +27 11 452 1116 - F +27 86 588 0293	
echlab@labchem.co.za - www.labchem.co.;	<u>za</u>
.4. Emergency telephone number	
mergency number	: +27 11 452 1116
SECTION 2: Hazards identificatio	
.1. Classification of the substance	or mixture
Classification according to the United Na	tions GHS
Serious eye damage/eye irritation,	H319
Category 2A Reproductive toxicity, Category 1B	H360
full text of H statements : see section 16	1500
.2. Label elements	
abelling according to the United Nations	GHS
lazard pictograms (GHS-ZA)	
	GHS08
ignal word (GHS-ZA)	: Danger
lazard statements (GHS-ZA)	: H319 - Causes serious eye irritation.
	H360 - May damage fertility or the unborn child.
Precautionary statements (GHS-ZA)	: P201 - Obtain special instructions before use.
	P202 - Do not handle until all safety precautions have been read and understood. P264 - Wash hands, forearms and face thoroughly after handling.
	P204 - Wash hands, loteanns and lace thoroughly and handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing.
	P308+P313 - IF exposed or concerned: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.
	P307+P313 - If eye initiation persists. Get medical advice/attention. P405 - Store locked up.
	P501 - Dispose of contents/container to hazardous or special waste collection point, in
	accordance with local, regional, national and/or international regulation.
3. Other hazards	
dverse physicochemical, human health and nvironmental effects	: May damage fertility or the unborn child, Causes serious eye irritation.
nvironmentai enects	
ECTION 3: Composition/informa	tion on ingredients
.1. Substances	

3.1.	Substances
Chemical	name

: disodium tetraborate decahydrate, borax decahydrate

Substance identification codes: See section 1.1

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

		Product identifier	%	Classification according to the United Nations GHS
lisodium tetraborate decahydrate, borax decahydrate Main constituent)	9	(CAS-No.) 1303-96-4	≥ 99.9	Eye Irrit. 2A, H319 Repr. 1B, H360
II text of H-statements: see section 16				
2. Mixtures				
ot applicable				
ECTION 4: First aid measures				
1. Description of first aid measures				
st-aid measures general	: IF exp	oosed or concerned: Get medie	cal advice/attention.	
st-aid measures after inhalation	: Remo	ove person to fresh air and kee	p comfortable for brea	thing.
st-aid measures after skin contact	: Wash	skin with plenty of water.		
st-aid measures after eye contact		cautiously with water for seve ontinue rinsing. If eye irritation		contact lenses, if present and easy advice/attention.
st-aid measures after ingestion	: Call a	poison center or a doctor if yo		
2. Most important symptoms and effe				
mptoms/effects after eye contact	: Eye ii	ritation.		
3. Indication of any immediate medica	l attentio	n and special treatment need	led	
eat symptomatically.				
ECTION 5: Firefighting measures				
1. Extinguishing media				
itable extinguishing media	: Wate	r spray. Dry powder. Foam.		
2. Special hazards arising from the su	bstance of	or mixture		
azardous decomposition products in case of		fumes may be released.		
2		,		
3. Advice for firefighters				
otection during firefighting		ot attempt to take action withou atus. Complete protective clot	•	quipment. Self-contained breathing
ECTION 6: Accidental release mea	sures			
1. Personal precautions, protective ec	uipment	and emergency procedures		
additional information available				
1.1. For non-emergency personnel				
nergency procedures	: Only	qualified personnel equipped w	vith suitable protective	equipment may intervene.
1.2. For emergency responders				
otective equipment		ot attempt to take action withou to section 8: "Exposure control		quipment. For further information
2. Environmental precautions				
oid release to the environment. Notify authori	ties if prod	uct enters sewers or public wa	ters.	
3. Methods and material for containmo	ent and c	eaning up		
ethods for cleaning up	: Mech	anically recover the product. N	otify authorities if prod	luct enters sewers or public waters
her information	: Dispo	se of materials or solid residue	es at an authorized site	9.
ECTION 7: Handling and storage				
1. Precautions for safe handling				
ecautions for safe handling	handl	0	ave been read and uno	l instructions before use. Do not derstood. Wear personal protective
giene measures		rate working clothes from town using this product. Always wa		arately. Do not eat, drink or smoke g the product.
2. Conditions for safe storage, includi	ng any in	compatibilities		
2. Conditions for safe storage, includi orage conditions		locked up. Store in a well-vent	ilated place. Keep coo	bl.

Safety Data Sheet

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DISODIUM TETRABORATE 10hydr (1303-9		
South Africa - Occupational Exposure Lim		
	Borates, tetra, Sodium salts decahydrate (Disodium tetraborate decahydrate)	
OEL TWA (mg/m ³)	5 mg/m ³	
Regulatory reference	Government Notice. R: 1179	
.2. Appropriate engineering controls		
Appropriate engineering controls	: Ensure good ventilation of the work station.	
Environmental exposure controls	: Avoid release to the environment.	
3.3. Individual protection measures, su	uch as personal protective equipment (PPE)	
Hand protection : Protective gloves		
Eye protection	: Safety glasses	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	 In case of insufficient ventilation, wear suitable respiratory equipment. Dust production: dust mask with filter type P1 	
Personal protective equipment symbol(s):		
sisonal protective equipment symbol(s).		
.4. Exposure limit values for the other	r components	
3.4. Exposure limit values for the other	r components	
No additional information available		
SECTION 9: Physical and chemical	nronerties	
SECTION 3. Thysical and chemical		
1 Information on basic physical and		
	chemical properties	
Physical state	chemical properties : Solid	
Physical state	chemical properties : Solid : Crystalline powder.	
Physical state Appearance Aolecular mass	chemical properties : Solid	
Physical state Appearance Aolecular mass Colour	chemical properties : Solid : Crystalline powder. : 381.38 g/mol	
Physical state Appearance Molecular mass Colour Odour	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white.	
Physical state Appearance Molecular mass Colour Odour Ddour threshold	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless.	
Physical state Appearance Molecular mass Colour Odour Odour threshold OH	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available	
0.1. Information on basic physical and Physical state Appearance Molecular mass Colour Odour Odour threshold DH Selation Relative evaporation rate (butylacetate=1)	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No data available	
Physical state Appearance Molecular mass Colour Odour Odour threshold OH Relative evaporation rate (butylacetate=1)	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No data available : No data available	
Physical state Appearance Molecular mass Colour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1)	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available	
Physical state Appearance Molecular mass Colour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available	
Physical state Appearance Molecular mass Colour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point Freezing point	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : Stata available : No data available <t< td=""></t<>	
Physical state ppearance Molecular mass Colour Odour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point reezing point Boiling point	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tapplicable	
hysical state ppearance folecular mass colour odour odour threshold H H solution celative evaporation rate (butylacetate=1) celative evaporation rate (ether=1) felting point reezing point coiling point lash point	 chemical properties Solid Crystalline powder. 381.38 g/mol white. odourless. No data available So data available No data available No data available No data available No tapplicable 1575 °C (anhydrous) 	
hysical state ppearance lolecular mass colour odour odour threshold H H solution telative evaporation rate (butylacetate=1) telative evaporation rate (ether=1) letting point reezing point oiling point lash point lash point uto-ignition temperature	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tata available : No tata available : Not applicable : Not applicable : Not applicable : Not applicable	
Physical state ppearance Molecular mass Colour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point Freezing point Goling point Clash poin	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tata available : No tata available : Not applicable : 1575 °C (anhydrous) : Not applicable : Not applicable : Not applicable	
Physical state ppearance Molecular mass Colour Odour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point reezing point Goiling point H H Colour C	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tapplicable : Not applicable : Not applicable : No data available	
Physical state Appearance Molecular mass Colour Odour Odour Odour threshold H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point Freezing point Boiling point Clash point Auto-ignition temperature Decomposition temperature Decomposition temperature Clammability (solid, gas) Mapour pressure	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tata available : Not applicable : Not applicable : Not applicable : Not data available : No tata available : Not applicable : Not applicable : No tata available : No tata available : No tata available : Not applicable : No tata available	
Physical state Appearance Molecular mass Colour Odour Odour threshold H Solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point Freezing point Soliling point Soliling point Freezing point Clash point Cla	chemical properties Solid Crystalline powder. 381.38 g/mol white. odourless. No data available Solid You data available No data available No data available No data available No data available You data available No data available Not applicable Not applicable No data available	
Physical state Appearance Molecular mass Colour Odour Odour threshold OH solution	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tapplicable : Not applicable : No data available :	
Physical state Appearance Molecular mass Colour Odour Dodour threshold OH H H H solution Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point Freezing point Freezing point Boiling point Flash point Clash point Clash point Clash point Flash point Clash po	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : no data available : No tata available : Not applicable : Not applicable : Not applicable : No tata available : No flammable. : No flammable. : No data available : No data available : No data available : No data available	
Physical state Appearance Molecular mass Colour Odour Dodour threshold OH OH Selative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Melting point Freezing point Boiling point Flash point Clash point Clash point Flash point Flash point Clash point Flash point Clash point	chemical properties : Solid : Crystalline powder. : 381.38 g/mol : white. : odourless. : No data available : No tapplicable : Not applicable : Not applicable : No data available : No	

Partition coefficient n-octanol/water (Log Pow)

Partition coefficient n-octanol/water (Log Kow)

Solubility

Relative gas density

Viscosity, kinematic

: No data available

: Water: 31.7 g/l

Safety Data Sheet

Skin corrosion/irritation

Germ cell mutagenicity

Carcinogenicity

term (chronic)

Serious eye damage/irritation

Respiratory or skin sensitisation

According to SANS 10234:2008 and SANS 11014:2010

According to SANS 10234:2008 and SANS 11014:20				
Oxidising properties	: No data available			
Explosive limits	: Not applicable			
Lower explosive limit (LEL)	: No data available			
Upper explosive limit (UEL)	: No data available			
9.2. Other information				
No additional information available				
SECTION 10: Stability and reactive	ity			
10.1. Reactivity				
The product is non-reactive under normal co	nditions of use, storage and transport.			
10.2. Chemical stability				
Stable under normal conditions.				
10.3. Possibility of hazardous reaction	0.3. Possibility of hazardous reactions			
No dangerous reactions known under norma	I conditions of use.			
10.4. Conditions to avoid				
None under recommended storage and hand	Iling conditions (see section 7).			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
Under normal conditions of storage and use,	hazardous decomposition products should not be produced.			
SECTION 11: Toxicological inform	nation			
11.1. Information on toxicological effe	ects			
Acute toxicity (oral)	: Not classified			
Acute toxicity (dermal)	: Not classified			
Acute toxicity (inhalation) : Not classified				

Reproductive toxicity	: May damage fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
SECTION 12: Ecological information	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-	: Not classified

: Causes serious eye irritation.

: Not classified

: Not classified

: Not classified

: Not classified

12.2.	Persistence and degradability	
DISO	DIUM TETRABORATE 10hydr (1303-96-4	
Persis	tence and degradability	No additional information available
12.3.	Bioaccumulative potential	
DISO	DIUM TETRABORATE 10hydr (1303-96-4	
Bioaco	cumulative potential	No additional information available
12.4.	Mobility in soil	
DISO	DIUM TETRABORATE 10hydr (1303-96-4	
Mobilit	y in soil	No additional information available
12.5.	Other adverse effects	
Ozone		Not classified
12/03/202	20	ZA - en 4/5

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

Other adverse effects

: No additional information available

SECTION 13: Disposal considerations

13.1. 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	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)	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

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

Not applicable

SECTION 15: Regulatory informat	ion		
15.1. Safety, health, and environmental national regulations specific for the product			
Regulatory reference	: 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.		
SECTION 16: Other information			
Issue date	: 12/03/2020		
Revision date	: 12/03/2025		
Revision date	. 12/03/2023		

Full text of H-statements:

[H319	Causes serious eye irritation.
[H360	May damage fertility or the unborn child.

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.