

Revision date: 24/02/2025

Issue date:24/02/2020

Version: 1.0

SECTIO	ON 1: Identification				
	Product identifier				
roduct fo		: Mixtu	re		
rade nan	ne	: SULF	URIC ACID SOLN 0.2N		
roduct co	ode	: 21920			
ormula		: H2SC	04		
2.	Relevant identified uses of the subs	tance or	mixture and uses advised against		
	ended uses and restrictions		aboratory use only		
.3.	Supplier's details				
+27 11 4 echlab@l	eld Road				
mergenc	cy number	: +27 1	1 452 1116		
ECTIO	ON 2: Hazards identification				
	Classification of the substance or m	ixture			
ot classi	ation according to the United Nation ified	s GHS			
.2.	Label elements				
abelling	according to the United Nations GH	IS			
o labellir	ng applicable				
.3.	Other hazards				
	ohysicochemical, human health and ental effects	: Caus	es severe skin burns and eye damage.		
ECTIC	ON 3: Composition/informatio	n on in	gredients		
	ON 3: Composition/informatio	n on in	gredients		
.1.	Substances	n on in	gredients		
.1. lot applic	Substances	n on in	gredients		
. 1. lot applic	Substances cable	n on in	gredients Product identifier	%	Classification according to the United Nations GHS
.1. lot applic .2.	Substances cable Mixtures	n on in		% < 1	U
1. ot applic 2. Name sulphuric	Substances cable Mixtures	n on in	Product identifier		the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314
1. ot applic 2. Name sulphuric ull text of	Substances cable Mixtures acid f H-statements: see section 16	n on in	Product identifier		the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314
1. ot applic 2. Name sulphuric ull text o	Substances cable Mixtures acid f H-statements: see section 16 DN 4: First aid measures	n on in	Product identifier		the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314
1. ot applic 2. Name sulphuric ull text o ECTIC	Substances cable Mixtures acid of H-statements: see section 16 DN 4: First aid measures Description of first aid measures		Product identifier (CAS-No.) 7664-93-9		the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314
1. ot applic 2. Name sulphuric ull text or ECTIO 1. rst-aid m	Substances cable Mixtures acid of H-statements: see section 16 DN 4: First aid measures Description of first aid measures measures general	: Call a	Product identifier (CAS-No.) 7664-93-9 a physician immediately.	<1	the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314 Aquatic Acute 3, H402
1. ot applic 2. Name sulphuric ull text o ECTIO 1. rst-aid m rst-aid m	Substances cable Mixtures acid of H-statements: see section 16 DN 4: First aid measures Description of first aid measures	: Call a : Remo : Rinse	Product identifier (CAS-No.) 7664-93-9 a physician immediately. ove person to fresh air and keep comfort a skin with water/shower. Take off immed	< 1 able for breathin	the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314 Aquatic Acute 3, H402
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1. ot applic 2. Name sulphuric ull text o ECTIO 1. rst-aid m rst-aid m rst-aid m	Substances cable Mixtures acid of H-statements: see section 16 ON 4: First aid measures Description of first aid measures neasures general neasures after inhalation neasures after skin contact	: Call a : Remo : Rinse imme : Rinse do. C	Product identifier (CAS-No.) 7664-93-9 a physician immediately. ove person to fresh air and keep comfort e skin with water/shower. Take off immediately.	< 1 able for breathin liately all contarr es. Remove cont ately.	the United Nations GHS Acute Tox. 5 (Oral), H303 Skin Corr. 1A, H314 Aquatic Acute 3, H402 g. iinated clothing. Call a physician act lenses, if present and easy
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Treat symptomatically.

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

According to SANS 10234:2008 and SANS 11014:2010		
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 sul	ostance 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 meas		
6.1. Personal precautions, protective equivalence of the second s	lipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe	
0 1	dust/fume/gas/mist/vapours/spray.	
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 containme		
Methods for cleaning up Other information	 Take up liquid spill into absorbent material. 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 good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.	
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.	
	Always wash hands after handling the product.	
7.2. Conditions for safe storage, including	ng any incompatibilities	
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.	
SECTION 8: Exposure controls/perso	onal protection	
8.1. Control parameters		
SULFURIC ACID SOLN 0.2N South Africa - Occupational Exposure Limits	(Pacampandad Limite)	
Local name	Sulphuric acid	
OEL TWA (mg/m ³)	1 mg/m ³	
Regulatory reference	Government Notice. R: 1179	
sulphuric acid (7664-93-9)		
South Africa - Occupational Exposure Limits	s (Recommended Limits)	
Local name	Sulphuric acid	
OEL TWA (mg/m ³)	1 mg/m ³	
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, suc	h as personal protective equipment (PPE)	
Hand protection	: Protective gloves	
Eye protection	: Safety glasses (EN166)	
Skin and body protection	: Wear suitable protective clothing	
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment	
Personal protective equipment symbol(s):		

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010



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.		
Odour	: No data available		
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	: 1.0053		
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 10: Stability and reactivity			
10.1 Reactivity			

10.1.	Reactivity			
The prod	The product is non-reactive under normal conditions of use, storage and transport.			
10.2.	Chemical stability			
Stable un	der normal conditions.			
10.3.	Possibility of hazardous reactions			
No dange	erous reactions known under normal conditions of use.			
10.4.	Conditions to avoid			
None und	ler recommended storage and handling conditions (see section 7).			
10.5.	Incompatible materials			
No additi	onal information available			

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

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	3	
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	
sulphuric acid (7664-93-9)		
LD50 oral rat	2140 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral, 14 day(s))	
LC50 inhalation rat (mg/l)	0,38 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (mixture of vapour and aerosol), 14 day(s))	
Skin corrosion/irritation	: Not classified	
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	
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Hazardous to the aquatic environment, short- term (acute)	: Not classified
Hazardous to the aquatic environment, long- term (chronic)	: Not classified
sulphuric acid (7664-93-9)	
LC50 fish 1	16 – 28 mg/l (96 h, Lepomis macrochirus, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)
EC50 72h algae (1)	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Growth rate)
12.2. Persistence and degradability	
SULFURIC ACID SOLN 0.2N	
Persistence and degradability	No additional information available
sulphuric acid (7664-93-9)	
Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
12.3. Bioaccumulative potential	
SULFURIC ACID SOLN 0.2N	
Bioaccumulative potential	No additional information available
sulphuric acid (7664-93-9)	
Bioaccumulative potential	Not bioaccumulative.
12.4. Mobility in soil	
SULFURIC ACID SOLN 0.2N	
Mobility in soil	No additional information available
sulphuric acid (7664-93-9)	
Surface tension	No data available in the literature
Ecology - soil	No (test)data on mobility of the substance available.
02/03/2020	7A - en 4/6

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

12.5. Other adverse effects Ozone : Not classified

Ozone Other adverse effects

: No additional information available

SECT	FION 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

IMDG	ΙΑΤΑ	
2796	2796	
SULPHURIC ACID	Sulphuric acid	
8	8	
8	Not applicable	
-		
Ш	Ш	
Dangerous for the environment : No	Dangerous for the environment : No	
:		
No supplementary information available		
	2796 SULPHURIC ACID 8 8 8 8 8 8 11 11 Dangerous for the environment : No :	

14.6. Special precautions for user

- SANS

- 5AN5	
Limited quantities (SANS)	: 1L
Limited quantities (SANS)	: 1L
Packagings, large packagings and IBCs Packing instructions (SANS)	: P001, IBC02
Portable tank and bulk containers instructions (SANS)	: T8
Portable tank and bulk container special provisions (SANS)	: TP2
- IMDG	
Limited quantities (IMDG)	: 1L
Excepted quantities (IMDG)	: E2
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B20
Tank instructions (IMDG)	: T8
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Colourless liquid, mixture not exceeding 1.405 relative density. Highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.
- IATA	
PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L

PCA packing instructions (IATA) PCA max net quantity (IATA) : 851

: 1L

Safety Data Sheet

According to SANS 10234:2008 and SANS 11014:2010

CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
ERG code (IATA)	: 8L

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

Not applicable

SECTION 15: Regulatory information		
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	: 24/02/2020	
Revision date	: 24/02/2025	

Full text of H-statements:

H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage.
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.