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Version: 1.0

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SECTION 1: Identification			
1.1. Product identifier			
Trade name	: TRIETHANOLA	MINE	
IUPAC name	: 2,2',2"-nitrilotriet	hanol	
EC-No.	203-049-8		
CAS-No.	: 102-71-6		
Product code	: 120100xxx		
Formula	: (CH2OHCH2)3N	l	
1.2. Relevant identified uses of the	ne substance or mixture a	nd uses advised against	
Recommended uses and restrictions	: For laboratory u	se 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.	<u>.co.za</u>		
1.4. Emergency telephone number	er		
Emergency number	: +27 11 452 111	6	
SECTION 2: Hazards identifica	tion		
2.1. Classification of the substan	ce or mixture		
Classification according to the United	Nations GHS		
Acute toxicity (oral) Not classified			
Skin corrosion/irritation, Category 2	H315		
Serious eye damage/eye irritation, Category 2A Hazardous to the aquatic environment - Acute Hazard Not classified Full text of H statements : see section 16	H319		
2.2. Label elements			
Labelling according to the United Nati Hazard pictograms (GHS-ZA)	GHS07		
Signal word (GHS-ZA)	: Warning		
Hazard statements (GHS-ZA)	: H315 - Causes	skin irritation. serious eye irritation.	
Precautionary statements (GHS-ZA)	: P264 - Wash ha P280 - Wear pro P302+P352 - IF P305+P351+P3 contact lenses, i P321 - Specific f P332+P313 - If s P337+P313 - If s	nds, forearms and face thoroughly af tective gloves/protective clothing/eye ON SKIN: Wash with plenty of water	e protection/face protection. th water for several minutes. Remove nsing. instruction on this label). <i>r</i> ice/attention. vice/attention.
2.3. Other hazards		5	
Adverse physicochemical, human health environmental effects	and : Causes skin irrit	ation,Causes serious eye irritation.	
SECTION 3: Composition/infor	mation on ingredient	S	
0.4 Outbacksons a			

Substances 3.1. IUPAC name

: 2,2',2"-nitrilotriethanol

Substance identification codes: See section 1.1

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According to SANS 10234:2019 and SANS 11014:2010

Name	Product identifier	%	Classification according to the United Nations GHS
2,2',2"-nitrilotriethanol (Main constituent)	(CAS-No.) 102-71-6	≥ 85	Acute Tox. Not classified (Oral) Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute Not classified
Full text of H-statements: see section 16			
3.2. Mixtures			
SECTION 4: First aid measures			
4.1. Description of first aid measures	· Remove person to fresh air and keep	comfortable for brea	thing
irst-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. irst-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.			
st-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy do. Continue rinsing. If eye irritation persists: Get medical advice/attention.			
First-aid measures after ingestion	: Call a poison center or a doctor if you	feel unwell.	
4.2. Most important symptoms and effe			
Symptoms/effects after skin contact	: Irritation.		
Symptoms/effects after eye contact	: Eye irritation.		
	al attention and special treatment neede	d	
Freat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carl	bon dioxide.	
5.2. Special hazards arising from the su			
Hazardous decomposition products in case of ire	: Toxic fumes may be released.		
5.3. Advice for firefighters		and the balance of the state of the second	n in an t-Oalf an tais a dhar athir a
Protection during firefighting	: Do not attempt to take action without apparatus. Complete protective clothi		quipment. Self-contained breathing
SECTION 6: Accidental release mea	sures		
	quipment and emergency procedures		
No additional information available			
5.1.1. For non-emergency personnel	· Ventilete enillere eree Aveid centert	with akin and avea	
	: Ventilate spillage area. Avoid contact	with skin and eyes.	
5.1.2. For emergency responders Protective equipment	: Do not attempt to take action without refer to section 8: "Exposure controls,		
6.2. Environmental precautions			
Avoid release to the environment.			
Avoid release to the environment. 6.3. Methods and material for containm	• .		
Avoid release to the environment. 6.3. Methods and material for containm Methods for cleaning up	: Take up liquid spill into absorbent ma		
Avoid release to the environment. 5.3. Methods and material for containm Methods for cleaning up Other information	• .).
Avoid release to the environment. 5.3. Methods and material for containm Methods for cleaning up Other information SECTION 7: Handling and storage	: Take up liquid spill into absorbent ma		<u>.</u>
Avoid release to the environment. 5.3. Methods and material for containment. Methods for cleaning up Other information SECTION 7: Handling and storage 7.1. Precautions for safe handling	: Take up liquid spill into absorbent ma : Dispose of materials or solid residues	at an authorized site	
Avoid release to the environment. 5.3. Methods and material for containment. Methods for cleaning up Other information SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	 Take up liquid spill into absorbent ma Dispose of materials or solid residues Ensure good ventilation of the work s protective equipment. 	at an authorized site	with skin and eyes. Wear personal
Avoid release to the environment. 5.3. Methods and material for containment. Methods for cleaning up Other information SECTION 7: Handling and storage 7.1. Precautions for safe handling	 Take up liquid spill into absorbent ma Dispose of materials or solid residues Ensure good ventilation of the work s 	at an authorized site tation. Avoid contact euse. Do not eat, drir	with skin and eyes. Wear personal
Avoid release to the environment. 5.3. Methods and material for containment. Methods for cleaning up Other information SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling	 Take up liquid spill into absorbent ma Dispose of materials or solid residues Ensure good ventilation of the work s protective equipment. Wash contaminated clothing before re Always wash hands after handling the 	at an authorized site tation. Avoid contact euse. Do not eat, drir	with skin and eyes. Wear personal
Avoid release to the environment. 5.3. Methods and material for container Methods for cleaning up Other information SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures	 Take up liquid spill into absorbent ma Dispose of materials or solid residues Ensure good ventilation of the work s protective equipment. Wash contaminated clothing before re Always wash hands after handling the 	at an authorized site tation. Avoid contact euse. Do not eat, drir e product.	with skin and eyes. Wear personal
Avoid release to the environment. 6.3. Methods and material for containment. Methods for cleaning up Other information SECTION 7: Handling and storage 7.1. Precautions for safe handling Precautions for safe handling Hygiene measures 7.2. Conditions for safe storage, includit	 Take up liquid spill into absorbent ma Dispose of materials or solid residues Ensure good ventilation of the work s protective equipment. Wash contaminated clothing before re Always wash hands after handling the ing any incompatibilities Store in a well-ventilated place. Keep 	at an authorized site tation. Avoid contact euse. Do not eat, drir e product.	with skin and eyes. Wear personal

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According to SANS 10234:2019 and SANS 11014:2010

8.2. Appropriate engineering control	S
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	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Full face mask with filter type A at conc. in air > exposure limit

Personal protective equipment symbol(s):



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	:	No data available
Molecular mass	:	149.19 g/mol
Colour	:	No data available
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	:	336.1 °C (at 101.325 kPa)
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	:	No data available
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

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According to SANS 10234:2019 and SANS 11014:2010				
SECTION 10: Stability and reactivity				
10.1. Reactivity				
The product is non-reactive under normal conditions of use, storage and transport.				
10.2. Chemical stability				
Stable under normal conditions.				
10.3. Possibility of hazardous reactions				
No dangerous reactions known under normal cor	ditions 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				
10.6. Hazardous decomposition products				
Under normal conditions of storage and use, haz	ardous decomposition products should not be produced.			
SECTION 11: Toxicological informati	on			
11.1. Information on toxicological effects				
Acute toxicity (oral)	: Not classified.			
Acute toxicity (dermal)	Not classified			
Acute toxicity (inhalation)	: Not classified			
TRIETHANOLAMINE (102-71-6)				
LD50 oral rat	6400 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)			
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)			
Skin corrosion/irritation	: Causes skin irritation.			
Serious eye damage/irritation	: Causes serious eye irritation.			
Respiratory or skin sensitisation	: Not classified			
Germ cell mutagenicity	: Not classified			
Carcinogenicity	: Not classified			
TRIETHANOLAMINE (102-71-6)				
NOAEL (chronic, oral, animal/male, 2 years)	63 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Remarks on results: other:			
Reproductive toxicity : Not classified				
STOT-single exposure	: Not classified			
STOT-repeated exposure	STOT-repeated exposure : Not classified			
TRIETHANOLAMINE (102-71-6)				
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)			

SECTION 12: Ecological information			
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 term (chronic)			
TRIETHANOLAMINE (102-71-6)			
LC50 fish 1	11800 mg/l Test organisms (species): Pimephales promelas		
EC50 Daphnia 1	609.88 mg/l Test organisms (species): Ceriodaphnia dubia		
EC50 72h algae (1) 512 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)			
EC50 72h algae (2)	216 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)		
12.2. Persistence and degradability			
TRIETHANOLAMINE (102-71-6)			
Persistence and degradability No additional information available			

Aspiration hazard

: Not classified

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According to SANS 10234:2019 and SANS 11014:2010

12.3. Bioaccumulative potential	Bioaccumulative potential		
TRIETHANOLAMINE (102-71-6)			
Bioaccumulative potential No additional information available			
12.4. Mobility in soil			
TRIETHANOLAMINE (102-71-6)			
Mobility in soil No additional information available			
12.5. Other adverse effects			
Ozone : Not classified			
Other adverse effects : No additional information available			

SECTION 13: Disposal considerations		
13.1.	Disposal methods	
Weste	treatment methods	· Dianaga of contanta/containar in a

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)					
Not applicable	Not applicable	Not applicable			
Not applicable	Not applicable	Not applicable			
14.4. Packing group	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 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	: 20/07/2020	
Revision date	: 20/07/2025	

Full text of H-statements:

H315	Causes skin irritation.			
H319	Causes serious eye irritation.			
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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.