

SECTION 1: Identification

1.1. Product identifier

Product form	:	Substance
Trade name	:	EDTA-4NA
Chemical name	:	Ethylene diamine tetraacetic acid tetrasodium salt
Substance type	:	Mono-constituent
Type of product	:	Additives (Salts)
EC-No.	:	603-569-9
CAS-No.	:	13235-36-4
Product code	:	34103
Formula	:	C10H16N2O8.4H2O.4Na
Product group	:	End product

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

Use of the substance/mixture	:	Manufacture of cosmetic products, cleaning and maintenance products
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1.3. Supplier's details

Distributor

Rolfes Chemicals Pty Ltd
Cnr Brammer and strachan street
P.O. Box 14075, Wadeville
1422 Germiston JHB – South Africa Gauteng
South Africa
T +27 11 873 0157

1.4. Emergency telephone number

Emergency number	:	0861114753
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1	H318
Full text of H-statements: see section 16	

2.2. Label elements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)	:	
Signal word (GHS-ZA)	:	Danger
Hazard statements (GHS ZA)	:	H302 - Harmful if swallowed H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS ZA)	:	P260 - Do not breathe dusts or mists. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P280 - Wear protective clothing, eye protection, face protection. P301+P317 - IF SWALLOWED: Get medical help. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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According to SANS 10234:2019 and SANS 11014:2010

P305+P354+P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P316 - Get emergency medical help immediately.
P317 - Get medical help.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P330 - Rinse mouth.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents and container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

2.3. Other hazards

Adverse physicochemical, human health and environmental effects : Harmful if swallowed, Causes severe skin burns and eye damage, Causes serious eye damage.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent
Name : Ethylene diamine tetraacetic acid tetrasodium salt
CAS-No. : 13235-36-4
EC-No. : 603-569-9
Chemical name : Ethylene diamine tetraacetic acid tetrasodium salt
Product identifiers: See section 1.1

Name	Product identifier	%	Classification according to the United Nations GHS
Ethylenediamine-N,N,N',N'-tetraacetic acid tetrasodium salt, tetrahydrate	CAS-No.: 13235-36-4		Not classified

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

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

Treat symptomatically.

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According to SANS 10234:2019 and SANS 11014:2010

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

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 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. Do not breathe vapours, gas, fume.

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 : Mechanically recover the product.

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 good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe fume, gas, vapours. 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 any incompatibilities

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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

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According to SANS 10234:2019 and SANS 11014:2010

Eye protection	: 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):



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	: Solid
Appearance	: Powder.
Colour	: white.
Odour	: odourless.
Odour threshold	: > ppm ≥ mg/m ³
pH	: 10,5 – 11,5
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: > 150 °C
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Critical temperature	: > °C
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: No data available
Flammability	: Non flammable.
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	: 1,67 g/cm ³
Relative gas density	: No data available
Solubility	: soluble in water. Water: 500 g/l
Partition coefficient n-octanol/water (Log Pow)	: -13,17
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: Not applicable
Lower explosion limit	: No data available
Upper explosion limit	: 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 conditions of use.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

Carbon dioxide (CO₂). Ammonia solution. Nitrogen oxides (NO_x) (as NO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: HARMFUL IF SWALLOWED
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: HARMFUL IF INHALED

EDTA-4NA (13235-36-4)

LD50 oral rat	1913 mg/kg
LD50 oral	1780 (≥) mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> mg/l/4h
Skin corrosion/irritation	: Causes severe skin burns. pH: 10,5 – 11,5
Serious eye damage/irritation	: Serious eye damage/eye irritation, Category 1 pH: 10,5 – 11,5
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	: May cause damage to organs
Aspiration hazard	: Not classified

EDTA-4NA (13235-36-4)

Viscosity, kinematic	Not applicable
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Ethylenediamine-N,N,N',N'-tetraacetic acid tetrasodium salt, tetrahydrate (13235-36-4)

Animal studies and expert judgment for classification	False
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
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According to SANS 10234:2019 and SANS 11014:2010

Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified.

(chronic)

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LC50 - Fish [1]	100 mg/l
LC50 - Fish [2]	100 mg/l
EC50 - Crustacea [1]	114 mg/l
EC50 - Crustacea [2]	25 mg/l
EC50 72h - Algae [1]	100 mg/l
EC50 72h - Algae [2]	60 mg/l
NOEC chronic fish	35,1 mg/l
NOEC chronic algae	79,4 mg/l
Partition coefficient n-octanol/water (Log Pow)	-13,17

12.2. Persistence and degradability

EDTA-4NA (13235-36-4)

Persistence and degradability	No additional information available
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12.3. Bioaccumulative potential

EDTA-4NA (13235-36-4)

Partition coefficient n-octanol/water (Log Pow)	-13,17
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

EDTA-4NA (13235-36-4)

Mobility in soil	No additional information available
Partition coefficient n-octanol/water (Log Pow)	-13,17

12.5. Other adverse effects

Ozone : Not classified

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	IATA
14.1. UN number		
Not regulated for transport		

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According to SANS 10234:2019 and SANS 11014:2010

SANS	IMDG	IATA
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 Marine pollutant : 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

No additional information available

SECTION 16: Other information

Issue date : 2018/06/21
Supersedes : 2023/06/20

Indication of changes			
Section	Changed item	Change	Comments
	Precautionary statements (GHS ZA)	Modified	No additional information available
10	Incompatible materials	Added	No additional information available
10	Hazardous decomposition products	Modified	No additional information available

Full text of H-statements

H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

Safety Data Sheet (SDS), South Africa

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Safety Data Sheet

According to SANS 10234:2019 and SANS 11014:2010

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.