

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date: 10-JAN-2025

Print Date: 10-JAN-2025

SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifiers

Product name: EDTA, 0.5 M, pH 8.0, Molecular Biology Grade

Cat. No. : EDT-002-100ML

Physical form : Liquid solution

REACH No. : This product is a mixture. REACH Registration Number see section 3.

1.1.1 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Reagent for development and research

1.2 Details of the supplier of the safety data sheet

Company: Serana Europe GmbH

Dorfstrasse 17A

14641 Pessin

Germany

Phone: +49 (0)33237859253

E-Mail: info@serana-europe.com

1.3 Emergency telephone number

Emergency Phone: Regular Office Hours +49 8543 489 8740

SECTION 2 Hazards Identification

2.1 Classification of the substance or mixture

Serious eye damage, (Category 1)

Specific target organ toxicity - repeated exposure, (Category 2), Respiratory Tract

H318: Causes serious eye damage.

H373: May cause damage to organs through prolonged or repeated exposure if inhaled.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram



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Singal Word Danger

Hazard statements

H318 Causes serious eye damage.
H373 May cause damage to organs (Respiratory Tract) through prolonged or repeated exposure if inhaled.

Precautionary statements

P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
P280 Wear 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.
P314 Get medical advice/ attention if you feel unwell.
P501 Dispose of contents/ container to an approved waste disposal plant.
Supplemental Hazard Statements none

Reduced Labelling (<=125 ml)

Pictogram



Singal Word Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P280 Wear 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.

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Supplemental Hazard Statements none

2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3 Composition/Information on Ingredients

Mixtures

Component	Classification	Concentration
Ethylenedinitrilotetraacetic acid trisodium salt		
CAS: 150-38-9 EC: 205-758-8 Registration number 01-2120792896-30 XXXX	Acute Tox. 4; Eye Dam. 1; STOT RE 2; H302, H332, H318, H373	>= 20 - < 30 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4 First Aid Measures

4.1. Description of first-aid measures

General advice

Show this material safety data sheet to the doctor in attendance.

If inhaled

After inhalation: fresh air. Call in physician.

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In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

SECTION 5 Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

Carbon oxides

Nitrogen oxides (NO_x)

Sodium oxides

Mixture with combustible ingredients.

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Fire may cause evolution of:

nitrogen oxides

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment for cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7 Handling and Storage

7.1 Precautions for safe handling

Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

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Hygiene measures

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3. Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 Exposure Controls/Personal Protection

8.1. Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

EYE/ face protection	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles
Skin protection	This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN 16523-1 please contact the supplier of CE-approved gloves
Body Protection	protective clothing
Respiratory protection	required when vapours/aerosols are generated.

Control of environmental exposure

Do not let product enter drains.

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SECTION 9 Physical and Chemical Properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Color:	clear, colorless
Odor:	No data available.
Melting Point/Freezing Point:	No data available.
Boiling point/range:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower flammability or explosive limits:	No data available.
Flash point:	No data available.
Autoignition temperature:	No data available.
Decomposition temperature:	No data available.
Water solubility:	at 20 °C soluble
pH:	No data available.
Viscosity:	Viscosity, kinematic: No data available. Viscosity, dynamic: No data available.
Partition coefficient: n-octanol/water	No data available.
Vapor pressure	No data available.
Density/Relative density:	No data available.
Relative vapor density	No data available.
Particle characteristics	No data available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other safety information

No data available

SECTION 10 Stability and Reactivity**10.1. Reactivity**

No data available

10.2. Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

10.3. Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

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Violent reactions possible with:

The generally known reaction partners of water.

10.4. Conditions to avoid

no information available.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

In the event of fire: see section 5

SECTION 11 Toxicological Information

11.1 Information on toxicological effects

Mixture

Acute toxicity

Acute toxicity estimate Oral - > 2.000 mg/kg

(Calculation method)

Acute toxicity estimate Inhalation - 4 h - > 5 mg/l - dust/mist(Calculation method)

Symptoms: Possible symptoms:, mucosal irritations

Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Remarks: Mixture causes serious eye damage.

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

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Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Mixture may cause damage to organs through prolonged or repeated exposure. -

Respiratory Tract

Aspiration hazard

No data available.

11.2. Additional Information

Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Components

Ethylenedinitrilotetraacetic acid trisodium salt

Acute toxicity

LD50 Oral - Rat - female - 1.780 mg/kg

(OECD Test Guideline 401)

Remarks: (EDTA sodium salt)

The value is given in analogy to the following substances:

Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt

Acute toxicity estimate Inhalation - 4 h - 1,6 mg/l - dust/mist

(Expert judgment)

Remarks: (in analogy to similar products)

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The value is given in analogy to the following substances:

Ethylenedinitrilotetraacetic acid disodium salt

Dermal: No data available

Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation

Remarks: (External MSDS)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes.

(OECD Test Guideline 405)

Remarks: (in analogy to similar products)

The value is given in analogy to the following substances:

Ethylenedinitrilotetraacetic acid, Tetrasodiumsalt

Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

(OECD Test Guideline 406)

Germ cell mutagenicity

Test Type: Ames test

Test system: Escherichia coli/Salmonella typhimurium

Result: negative

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster ovary cells

Result: negative

Test Type: gene mutation test

Test system: mouse lymphoma cells

Result: negative

Method: OECD Test Guideline 474

Species: Mouse - male - Bone marrow

Result: negative

Carcinogenicity

No data available

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Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

Inhalation - May cause damage to organs through prolonged or repeated exposure.-
Respiratory Tract

Aspiration hazard

No data available

SECTION 12 Ecological Information

12.1. Toxicity

Mixture

No data available.

12.2. Mobility in soil

No data available.

12.3. Biodegradation

No data available.

12.4. Bioaccumulation

No data available.

12.5. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6. Endocrine disrupting properties Product

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The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available

Components**Ethylenedinitrilotetraacetic acid trisodium salt**

Toxicity to fish static test LC50 - Pimephales promelas (fathead minnow) - >
300 mg/l - 96 h
Remarks: (ECOTOX Database)

Toxicity to bacteria
Toxicity to daphnia semi-static test NOEC - Daphnia - 25 mg/l - 21 d Remarks: (ECHA)
and other aquatic
invertebrates(Chronic
toxicity)

SECTION 13 Disposal Considerations**13.1. Waste treatment methods**

No data available.

SECTION 14 Transport Information**14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

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14.4 Packaging group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available

Further information

Not classified as dangerous in the meaning of transport regulations.

SECTION 15 Regulatory Information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable.

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16 Other Information**Full text of H-Statements**

H302	Harmful if swallowed
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

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Full text of other abbreviations

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ALARP	As low as is reasonably practicable
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulations
COSHH	Control of Substances Hazardous to Health
EC Number	European Community Number
EC50	Effective Concentration 50%
EILINCS	European List of Notified Chemical Substances
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System
HSE	Health & Safety Executive UK
IATA	International Air Transport Association
IM	Intramuscular
IMDG	The International Maritime Dangerous Goods Code
IP	Intraperitoneal
IV	Intravascular
LD50	Lethal Dose 50%
LOEC	Lowest Observable Effective Concentration
LTEL	Long Term Exposure Limit
NOEC	No Observable Effective Concentration
OECD	Organisation for Economic Cooperations and Development
PBT	Persistent Bioaccumulative Toxic
PPE	Personal Protective Equipment
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
SC	Subcutaneous
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
STOT	Specific Target Organ Toxicity
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

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Classification of the mixture

Eye Dam.1

H318

STOT RE2

H373

Classification of procedure:

Calculation method

Calculation method

Disclaimer: Serana Europe GmbH shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.

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