

**Safety Data Sheet**

according to UK REACH Regulation

**sera Ca Test, Reagenz 3**

Revision date: 06.09.2023

Product code: Ca-R3

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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**EAN**

4001942040044

4001942049207

4001942049221

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

Solution for monitoring water parameters in aquarium and tap water.

The product is intended for consumer use.

The product is intended for professional use.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: sera Werke Heimtierbedarf

J. Ravnak GmbH &amp; Co. KG

Street: Borsigstraße 49

Place: D-52525 Heinsberg

Post-office box: 1466

D-52518 Heinsberg

Telephone: +49 (0)2452 91260

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e-mail: info@sera.de

Contact person: Dr. Matthias Dahm

e-mail: sds.info@sera.biz

Internet: www.sera.de

Responsible Department: Labor

**Supplier**

Company name: sera GmbH

Street: Borsigstr. 49

Place: D-52525 Heinsberg

Post-office box: 1466

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e-mail: info@sera.de

Contact person: Dr. Matthias Dahm

e-mail: sds.info@sera.biz

Internet: www.sera.de

Responsible Department: Labor

**1.4. Emergency telephone**

+49 (0)2452 91260 (Only available during office hours.)

**number:**

+49 (0)2452 9126555

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements**

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### Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

### 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Aqueous solution of organic and inorganic salts.

#### Hazardous components

| CAS No    | Chemical name   |          |                  | Quantity |
|-----------|---|----------|------------------|----------|
|           | EC No   | Index No | REACH No         |          |
|           | Classification (GB CLP Regulation)                                      |          |                  |          |
| 6381-92-6 | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) |          |                  | < 5 %    |
|           | 205-358-3   |          | 01-2119486775-20 |          |
|           | Acute Tox. 4, STOT RE 2; H332 H373                                      |          |                  |          |

Full text of H and EUH statements: see section 16.

#### Specific Conc. Limits, M-factors and ATE

| CAS No    | EC No     | Chemical name  | Quantity |
|-----------|-----------|--|----------|
|           |           | Specific Conc. Limits, M-factors and ATE   |          |
| 6381-92-6 | 205-358-3 | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)                                    | < 5 %    |
|           |           | inhalation: ATE = 11 mg/l (vapours); inhalation: LC50 = 1,6 mg/l (dusts or mists); oral: LD50 = 2800 mg/kg |          |

#### Further Information

Contains no further substance with acute toxicity.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Call a doctor if you feel unwell.

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

No known symptoms to date.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

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**5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

no restriction

**5.2. Special hazards arising from the substance or mixture**Non-flammable. The product itself does not burn. In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.  
Do not allow entering drains or surface water.**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Avoid contact with skin, eyes and clothes.

**For non-emergency personnel**

First aider: Pay attention to self-protection! Remove persons to safety.

**For emergency responders**Cover drains. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Use personal protection equipment.**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****For containment**

Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Contain leaks or spills within cabinets with removable trays.

**For cleaning up**Large amounts of spillages: Use approved industrial vacuum cleaner for removal.  
Small amounts of spillages: Wipe up with absorbent material (eg. cloth, fleece).  
Clear contaminated areas thoroughly. Wash with plenty of water.**Other information**

Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

Keep out of reach of children.

**Advice on protection against fire and explosion**

No special fire protection measures are necessary.

**Advice on general occupational hygiene**Keep away from food, drink and animal feedingstuffs. Do not eat, drink or smoke when using this product.  
Wash hands before breaks and after work.

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### Further information on handling

Handle and open container with care. Put lids on containers immediately after use.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Keep/Store only in original container. Protect from direct sunlight.

Do not store at temperatures below 0°C. Recommended storage temperature: at room temperature.

#### Hints on joint storage

No materials to be specially mentioned

#### Further information on storage conditions

No special measures are necessary. The product is stable under storage at normal ambient temperatures.

### 7.3. Specific end use(s)

Solution for monitoring water parameters in aquarium and tap water.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNEL/DMEL values

| CAS No                 | Substance   | Exposure route | Effect | Value                 |
|------------------------|---|----------------|--------|-----------------------|
| 6381-92-6              | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) |                |        |                       |
| Worker DNEL, long-term |   | inhalation     | local  | 1,5 mg/m <sup>3</sup> |
| Worker DNEL, acute     |   | inhalation     | local  | 3 mg/m <sup>3</sup>   |

#### PNEC values

| CAS No   | Substance   | Value     |
|--|---|-----------|
| 6381-92-6  | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) |           |
| Freshwater                                       |   | 2,2 mg/l  |
| Marine water                                     |   | 0,22 mg/l |
| Micro-organisms in sewage treatment plants (STP) |   | 43 mg/l   |

#### Additional advice on limit values

To date, no national critical limit values exist.

When using do not eat, drink, smoke, sniff.

### 8.2. Exposure controls

#### Appropriate engineering controls

No special technical protective measures are necessary.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Avoid contact with eyes. Suitable eye protection: goggles. not required under normal use.

##### Hand protection

Avoid contact with skin. Hand protection is not required..

##### Skin protection

Body protection: not required.

##### Respiratory protection

Usually no personal respiratory protection necessary.

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### Thermal hazards

Non-flammable. The product itself does not burn. Thermal decomposition can lead to the escape of irritating gases and vapours. In case of fire may be liberated: Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |                                  |
|---|----------------------------------|
| Physical state:   | Liquid                           |
| Colour:   | colourless                       |
| Odour:  | odourless                        |
| Odour threshold:  | not applicable                   |
| Melting point/freezing point:                             | 0 °C                             |
| Boiling point or initial boiling point and boiling range: | 100 °C                           |
| Flammability:   | Non-flammable.<br>not applicable |
| Lower explosion limits:                                   | not determined                   |
| Upper explosion limits:                                   | not determined                   |
| Flash point:  | > 100 °C                         |
| Auto-ignition temperature:                                | Non-flammable.                   |
| Decomposition temperature:                                | not determined                   |
| pH-Value (at 20 °C):                                      | 4-5                              |
| Viscosity / kinematic:                                    | not determined                   |
| Water solubility:   | completely miscible              |
| Solubility in other solvents                              | not determined                   |
| Partition coefficient n-octanol/water:                    | not applicable                   |
| Vapour pressure:  | 23 hPa                           |
| (at 20 °C)  |                                  |
| Vapour pressure:  | not determined                   |
| Density:  | 1,01 g/cm <sup>3</sup>           |
| Bulk density:   | not applicable                   |
| Relative vapour density:                                  | not determined                   |
| Particle characteristics:                                 | not applicable                   |

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

No ignition, explosion, self-heating or visible decomposition.

The product is not: Explosive

##### Sustaining combustion:

Not sustaining combustion

##### Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

##### Oxidizing properties

Not oxidising.

#### Other safety characteristics

##### Evaporation rate:

not determined

##### Solvent separation test:

No data available

##### Solvent content:

not determined

##### Solid content:

not determined

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|                      |                |
|----------------------|----------------|
| Sublimation point:   | not applicable |
| Softening point:     | not applicable |
| Pour point:          | not determined |
| Viscosity / dynamic: | not determined |
| Flow time:           | not determined |

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Protect from direct sunlight.

#### 10.5. Incompatible materials

none

#### 10.6. Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide, Carbon dioxide (CO<sub>2</sub>).

Thermal decomposition can lead to the escape of irritating gases and vapours.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

##### Toxicokinetics, metabolism and distribution

There are no data available on the preparation/mixture itself.

##### Acute toxicity

Based on available data, the classification criteria are not met.

##### ATEmix calculated

ATE (inhalation vapour) 492,57 mg/l; ATE (inhalation dust/mist) 71,646 mg/l

| CAS No    | Chemical name   |                 |         |        |          |
|-----------|---|-----------------|---------|--------|----------|
|           | Exposure route  | Dose            | Species | Source | Method   |
| 6381-92-6 | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) |                 |         |        |          |
|           | oral  | LD50 2800 mg/kg | Rat     | ECHA   | OECD 401 |
|           | inhalation vapour   | ATE 11 mg/l     |         |        |          |
|           | inhalation (4 h) dust/mist  | LC50 1,6 mg/l   | Rat     | SDS    | OECD 412 |

##### Irritation and corrosivity

Based on available data, the classification criteria are not met.

##### Sensitising effects

Based on available data, the classification criteria are not met.

##### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

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### Aspiration hazard

Based on available data, the classification criteria are not met.

### Information on likely routes of exposure

Skin contact, Eye contact, Ingestion, Inhalation

### Specific effects in experiment on an animal

There are no data available on the preparation/mixture itself.

### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

### Practical experience

There are no data available on the preparation/mixture itself.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

There are no data available on the preparation/mixture itself.

#### Other information

There are no data available on the preparation/mixture itself.

#### Further information

Handle in accordance with good industrial hygiene and safety practice.

Health injuries are not known or expected under normal use.

## SECTION 12: Ecological information

### 12.1. Toxicity

There are no data available on the preparation/mixture itself. According to the criteria of the European classification and labelling system, the substance/the product has not to be labelled as "dangerous for the environment". Ecological injuries are not known or expected under normal use.

| CAS No    | Chemical name   |                   |           |                                 |        |                     |
|-----------|---|-------------------|-----------|---------------------------------|--------|---------------------|
|           | Aquatic toxicity  | Dose              | [h]   [d] | Species                         | Source | Method              |
| 6381-92-6 | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) |                   |           |                                 |        |                     |
|           | Acute fish toxicity   | LC50 41 mg/l      | 96 h      | Lepomis macrochirus (Bluegill)  | SDS    |                     |
|           | Acute algae toxicity  | ErC50 > 60 mg/l   | 72 h      | Pseudokirchneriella subcapitata | ECHA   | OECD 201            |
|           | Acute crustacea toxicity  | EC50 140 mg/l     | 48 h      | Daphnia magna (Big water flea)  | SDS    | DIN 38412 / part 11 |
|           | Fish toxicity   | NOEC > 25,7 mg/l  | 35 d      | Danio rerio (zebrafish)         | SDS    | OECD 210            |
|           | Crustacea toxicity  | NOEC > 25 mg/l    | 21 d      | Daphnia magna (Big water flea)  | SDS    |                     |
|           | Acute bacteria toxicity   | (EC50 > 640 mg/l) | 3 h       | Activated sludge                | SDS    | OECD 209            |

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### Partition coefficient n-octanol/water

| CAS No    | Chemical name   | Log Pow |
|-----------|---|---------|
| 6381-92-6 | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) | -4,3    |

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### BCF

| CAS No    | Chemical name   | BCF | Species                        | Source |
|-----------|---|-----|--------------------------------|--------|
| 6381-92-6 | ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium) | 1,8 | Lepomis macrochirus (Bluegill) | SDS    |

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### Further information

Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

161001 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; aqueous liquid wastes destined for off-site treatment; aqueous liquid wastes containing hazardous substances; hazardous waste

#### List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

## SECTION 14: Transport information

### Land transport (ADR/RID)

#### 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

### Inland waterways transport (ADN)

#### 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

#### 14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

#### 14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

#### 14.4. Packing group:

No dangerous good in sense of this transport regulation.

### Marine transport (IMDG)

#### 14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.



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**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No information available.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

#### Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:  
ethylenediaminetetraacetic acid disodium salt dihydrate (EDTA disodium)

## SECTION 16: Other information

### Changes

This data sheet contains changes from the previous version in section(s): 2,4,5,7,8,9,12,15,16.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

### Key literature references and sources for data

Safety Data Sheet, ECHA

### Relevant H and EUH statements (number and full text)

H332 Harmful if inhaled.

H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure if inhaled.

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**Further Information**

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP].  
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*