

Revised on: 17.10.2019

EDTA tripotassium salt dihydrate, granulated pure

Created on: 26.07.2019

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Trade name:** EDTA tripotassium salt dihydrate, granulated pure

**Article number:** LC-10095

**REACH Registration Number:** 01-2119904770-43-xxxx

### 1.2. Relevant identified uses of the substance or mixture

**Identified uses:** Reagent for analysis

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer/Supplier:**

neoFroxx GmbH

Marie-Curie-Str. 3

D-64683 Einhausen

[info@neofroxx.com](mailto:info@neofroxx.com)

**Further information obtainable from:**

Dep. Quality Control

### 1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

## 2. Hazards identification

### 2.1. Classification of the substance or the mixture

**Classification (REGULATION (EC) No 1272/2008):**

Eye irritation, Category 2, H319

Chronic aquatic toxicity, Category 3, H412

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

**Classification (67/548/EEC or 1999/45/EC):**

R52/53

Xi Irritant R36

For the full text of the R-phrases mentioned in this Section, see Section 16.

### 2.2. Label elements

**Labelling (REGULATION (EC) No 1272/2008):**

**Hazard pictograms:**



**Signal word:** Warning

**Hazard statements:**

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

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**Precautionary statements:**

P273 Avoid release to the environment.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**CAS-No.:** 65501-24-8

**EC-No.:** 241-543-5

2.3. Other hazards

None known.

### 3. Composition / information on ingredients

3.1. Substance

**Formula:**  $C_{10}H_{13}K_3N_2O_8 \cdot 2H_2O$  (Hill)

**CAS-No.:** 65501-24-8

**EC-No.:** 241-543-5

**Molar mass:** 442,56 g/mol

**Hazardous components (REGULATION (EC) No 1272/2008):**

**Chemical name (Concentration):**

ethylenediaminetetraacetic acid tripotassium salt ( $\geq 50\%$  -  $\leq 100\%$ )

**CAS-No.:** 17572-97-3

**Registration number:** 01-2119904770-43-xxxx

**Classification:**

Eye irritation, Category 2, H319

Chronic aquatic toxicity, Category 3, H412

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

3.2. Mixture

Not applicable

### 4. First aid measures

4.1. Description of first aid measures

**After inhalation:** fresh air.

**After skin contact:** wash off with plenty of water. Remove contaminated clothing.

**After eye contact:** rinse out with plenty of water. Call in ophthalmologist.

**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  
irritant effects

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

No information available.

### 5. Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media:**

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

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**Unsuitable extinguishing media:**

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

5.2. Special hazards arising from the substance or mixture

Combustible.

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

**Fire may cause evolution of:**

nitrogen oxides

5.3. Advice for firefighters

**Special protective equipment for firefighters:**

In the event of fire, wear self-contained breathing apparatus.

**Further information:**

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

## 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

**Advice for non-emergency personnel:** Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

**Advice for emergency responders:**

Protective equipment see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills.

Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections

Indications about waste treatment see section 13.

## 7. Handling and storage

7.1. Precautions for safe handling:

**Advice on safe handling:**

Observe label precautions.

**Hygiene measures:**

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

7.2. Conditions for safe storage, including any incompatibilities:

**Storage conditions:**

Tightly closed. Dry.

**Recommended storage temperature:** see product label.

7.3. Specific end use(s)

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

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## 8. Exposure controls / personal protection

### Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

### Individual protection measures:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

### Hygiene measures:

Change contaminated clothing. Preventive skin protection recommended. Wash hands after working with substance.

### Eye/face protection:

Safety glasses

### Hand protection:

#### full contact:

Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: > 480 min

#### splash contact:

Glove material: Nitrile rubber

Glove thickness: 0,11 mm

Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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 EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

### Other protective equipment:

protective clothing

### Respiratory protection:

required when dusts are generated.

Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

### Environmental exposure controls:

Do not let product enter drains.

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## 9. Physical and chemical properties

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

**Form:** solid

**Colour:** white

**Odour:** no strong odour known.

**Odour Threshold:** No information available.

**pH:** 8 - 9 at 50 g/l 20 °C

**Melting point:** 180 - 185 °C

**Boiling point/boiling range:** No information available.

**Flash point:** No information available.

**Evaporation rate:** No information available.

**Flammability (solid, gas):** No information available.

**Lower explosion limit:** No information available.

**Upper explosion limit:** No information available.

**Vapour pressure:** at 20 °C low

**Relative vapour density:** No information available.

**Density:** No information available.

**Relative density:** No information available.

**Water solubility at 20 °C:** soluble

**Partition coefficient: n-octanol/water:** No information available.

**Auto-ignition temperature:** No information available.

**Decomposition temperature:** No information available.

**Viscosity, dynamic:** No information available.

**Explosive properties:** Not classified as explosive.

**Oxidizing properties:** none

### 9.2. Other data

none

## 10. Stability and reactivity

### 10.1. Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

### 10.2. Chemical stability

releases water of crystallisation when heated.

### 10.3. Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

### 10.4. Conditions to avoid

no information available

### 10.5. Incompatible materials

no information available

### 10.6. Hazardous decomposition products

in the event of fire: See section 5.

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## 11. Toxicological information

### 11.1. Information on toxicological effects

**Eye irritation:**

Causes serious eye irritation.

**Specific target organ toxicity - single exposure:**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity - repeated exposure:**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**Aspiration hazard:**

Based on available data the classification criteria are not met.

### 11.2. Further information

Quantitative data on the toxicity of this product are not available.

**Further data:**

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

## 12. Ecological information

### 12.1. Toxicity

No information available.

### 12.2. Persistence and Degradability

No information available.

### 12.3. Bioaccumulative potential

No information available.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

### 12.6. Other adverse effects

Discharge into the environment must be avoided.

## 13. Disposal considerations

### 13.1. Waste treatment methods

**Recommendation:**

Chemicals must be disposed of in compliance with the respective national regulations.

**Recommendation:**

Disposal must be made according to official regulations.

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

## 14. Transport information

### Land transport (ADR/RID)

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

### Inland waterway transport (ADN)

Not relevant

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#### **Air transport (IATA)**

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

#### **Sea transport (IMDG)**

14.1 - 14.6

Not classified as dangerous in the meaning of transport regulations.

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

Not relevant

## 15. Regulatory information

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

#### **EU regulations:**

##### **Major Accident Hazard Legislation:**

96/82/EC

Directive 96/82/EC does not apply

##### **Occupational restrictions:**

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

##### **National legislation:**

**Storage class:** 10 – 13

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out.

## 16. Other information

#### **Full text of H-Statements referred to under sections 2 and 3:**

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

#### **Full text of R-phrases referred to under sections 2 and 3:**

R36 Irritating to eyes.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### **Training advice:**

Provide adequate information, instruction and training for operators.

#### **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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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