

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Sodium EDTA solution 0.0892 mol/l - 0.0892 M solution

Revision date: 11.09.2023

Product code: 20475

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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Sodium EDTA solution 0.0892 mol/l - 0.0892 M solution

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

###### Use of the substance/mixture

Laboratory chemical

Industrial uses: Uses of substances as such or in preparations at industrial sites

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

###### Uses advised against

Do not use for private purposes (household).

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

|                         |                                  |                              |
|-------------------------|----------------------------------|------------------------------|
| Company name:           | AnalytiChem GmbH                 |                              |
| Street:                 | Stempelstraße 6                  |                              |
| Place:                  | D-47167 Duisburg                 |                              |
| Telephone:              | 0203/5194-0                      | Telefax: 0203/5194-290       |
| E-mail:                 | info@analytichem.de              |                              |
| Contact person:         | Abteilung Produktsicherheit      | Telephone: 0203/5194-107/117 |
| E-mail:                 | produktsicherheit@analytichem.de |                              |
| Internet:               | www.analytichem.de               |                              |
| Responsible Department: | Abteilung Produktsicherheit      |                              |

##### 1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

##### Further Information

This product is a mixture. REACH Registration Number see section 3.

#### SECTION 2: Hazards identification

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

###### Regulation (EC) No 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

##### 2.2. Label elements

###### Regulation (EC) No 1272/2008

###### Special labelling of certain mixtures

EUH210 Safety data sheet available on request.

##### 2.3. Other hazards

No data available

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

###### Chemical characterization

Mixtures in aqueous solution

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**Hazardous components**

| CAS No    | Chemical name                                 |          |                  | Quantity  |
|-----------|---|----------|------------------|-----------|
|           | EC No   | Index No | REACH No         |           |
|           | Classification (Regulation (EC) No 1272/2008) |          |                  |           |
| 6381-92-6 | EDTA Na 2                                     |          |                  | 1 - < 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   | EDTA Na 2     | 1 - < 5 % |
|           | inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 2800 mg/kg |               |           |

**Further Information**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

No data available

**After inhalation**

Provide fresh air.

**After contact with skin**

Wash immediately with: Water  
Take off immediately all contaminated clothing and wash it before reuse.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water.  
In case of eye irritation consult an ophthalmologist.  
Remove contact lenses, if present and easy to do. Continue rinsing.

**After ingestion**

Rinse mouth immediately and drink plenty of water.  
Call a physician immediately.

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

No data available

**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**

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-combustible liquids

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Hazardous combustion products  
In case of fire may be liberated: Nitrogen oxides (NOx)

#### **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.  
Do not allow to enter into surface water or drains.

### SECTION 6: Accidental release measures

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Do not breathe dust/fume/gas/mist/vapours/spray.

##### **For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

#### **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**

Cover drains.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Collect in closed and suitable containers for disposal.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

##### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

##### **Other information**

Provide adequate ventilation.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **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**

Do not breathe vapour/aerosol.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

##### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

##### **Further information on handling**

Take off contaminated clothing.

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Wash hands before breaks and after work.

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

**Requirements for storage rooms and vessels**

Keep container tightly closed.

**Hints on joint storage**

No data available

**Further information on storage conditions**

Store in a dry place.

**7.3. Specific end use(s)**

Laboratory chemicals

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**DNEL/DMEL values**

| CAS No                   | Substance | Exposure route | Effect   | Value                 |
|--------------------------|-----------|----------------|----------|-----------------------|
| 6381-92-6                | EDTA Na 2 |                |          |                       |
| Worker DNEL, long-term   |           | inhalation     | local    | 1,5 mg/m <sup>3</sup> |
| Worker DNEL, acute       |           | inhalation     | local    | 3 mg/m <sup>3</sup>   |
| Consumer DNEL, long-term |           | inhalation     | local    | 0,6 mg/m <sup>3</sup> |
| Consumer DNEL, acute     |           | inhalation     | local    | 1,2 mg/m <sup>3</sup> |
| Consumer DNEL, long-term |           | oral           | systemic | 25 mg/kg bw/day       |

**PNEC values**

| CAS No   | Substance | Value     |
|--|-----------|-----------|
| 6381-92-6  | EDTA Na 2 |           |
| Freshwater                                       |           | 2,2 mg/l  |
| Freshwater (intermittent releases)               |           | 1,2 mg/l  |
| Marine water                                     |           | 0,22 mg/l |
| Micro-organisms in sewage treatment plants (STP) |           | 43 mg/l   |

**8.2. Exposure controls**

**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

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

**Eye/face protection**

Suitable eye protection: goggles.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

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By long-term hand contact

Trade name/designation: KCL 741 Dermatril® L  
Recommended material: NBR (Nitrile rubber) 0,11 mm  
Wearing time with permanent contact: > 480 min

By short-term hand contact

Trade name/designation: KCL 741 Dermatril® L  
Recommended material: NBR (Nitrile rubber) 0,11 mm  
Wearing time with occasional contact (splashes): > 480 min

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).

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Respiratory protection necessary at: aerosol or mist formation

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

## 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 determined |                         |
| Melting point/freezing point:                             |                | not determined          |
| Boiling point or initial boiling point and boiling range: |                | not determined          |
| Flammability:   |                | No data available       |
| Lower explosion limits:                                   |                | No data available       |
| Upper explosion limits:                                   |                | No data available       |
| Flash point:  |                | No data available       |
| Auto-ignition temperature:                                |                | No data available       |
| Decomposition temperature:                                |                | No data available       |
| pH-Value:   |                | not determined          |
| Viscosity / kinematic:                                    |                | not determined          |
| Water solubility:   |                | not determined          |
| Solubility in other solvents                              |                | not determined          |
| Dissolution rate:   |                | not determined          |
| Partition coefficient n-octanol/water:                    |                | not determined          |
| Dispersion stability:                                     |                | not determined          |
| Vapour pressure:  |                | not determined          |
| Density:  |                | 1,013 g/cm <sup>3</sup> |
| Relative density:   |                | not determined          |
| Bulk density:   |                | not determined          |

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Relative vapour density: not determined  
Particle characteristics: not determined

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties  
No data available  
Sustaining combustion: No data available  
Self-ignition temperature  
Solid: No data available  
Gas: No data available  
Oxidizing properties  
Not oxidising.

**Other safety characteristics**

Evaporation rate: not determined  
Solvent separation test: not determined  
Solvent content: not determined  
Solid content: not determined  
Sublimation point: not determined  
Softening point: not determined  
Pour point: not determined  
not determined:  
Viscosity / dynamic: not determined  
Flow time: not determined

**Further Information**

not determined

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No data available

**10.2. Chemical stability**

No data available

**10.3. Possibility of hazardous reactions**

No data available

**10.4. Conditions to avoid**

No data available

**10.5. Incompatible materials**

No data available

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Nitrogen oxides (NOx)

**Further information**

No data available

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

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**ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

| CAS No    | Chemical name        |                 |         |                     |  |
|-----------|----------------------|-----------------|---------|---------------------|--|
|           | Exposure route       | Dose            | Species | Source              | Method                                   |
| 6381-92-6 | EDTA Na 2            |                 |         |                     |  |
|           | oral                 | LD50 2800 mg/kg | Rat     | Study report (1973) | BASF-TEST: In principle, the methods des |
|           | inhalation vapour    | ATE 11 mg/l     |         |                     |  |
|           | inhalation dust/mist | ATE 1,5 mg/l    |         |                     |  |

**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.

**Aspiration hazard**

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

**Information on likely routes of exposure**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

**11.2. Information on other hazards**

**Endocrine disrupting properties**

There are no data available on the mixture itself.

**Other information**

There are no data available on the mixture itself.

**Further information**

There are no data available on the mixture itself.

**SECTION 12: Ecological information**

**12.1. Toxicity**

There are no data available on the mixture itself.

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| CAS No    | Chemical name            |                   |           |                                 |  |  |
|-----------|--------------------------|-------------------|-----------|---------------------------------|--|--|
|           | Aquatic toxicity         | Dose              | [h]   [d] | Species                         | Source                                   | Method                                   |
| 6381-92-6 | EDTA Na 2                |                   |           |                                 |  |  |
|           | Acute fish toxicity      | LC50 41 mg/l      | 96 h      | Lepomis macrochirus             | Bull. Environm. Contam. Toxicol. 24: 543 | The static water acute toxicity tests fo |
|           | Acute algae toxicity     | ErC50 > 100 mg/l  | 72 h      | Pseudokirchneriella subcapitata | Study report (2001)                      | OECD Guideline 201                       |
|           | Acute crustacea toxicity | EC50 140 mg/l     | 48 h      | Daphnia magna                   | Study report (1989)                      | other: DIN 38412, part 11                |
|           | Fish toxicity            | NOEC >= 25,7 mg/l | 35 d      | Danio rerio                     | Study report (2001)                      | OECD Guideline 210                       |
|           | Crustacea toxicity       | NOEC 25 mg/l      | 21 d      | Daphnia magna                   | Study report (1998)                      | other: EEC Guideline XI/681/86, Draft 4: |

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**Partition coefficient n-octanol/water**

| CAS No    | Chemical name | Log Pow |
|-----------|---------------|---------|
| 6381-92-6 | EDTA Na 2     | -4,3    |

**BCF**

| CAS No    | Chemical name | BCF     | Species             | Source               |
|-----------|---------------|---------|---------------------|----------------------|
| 6381-92-6 | EDTA Na 2     | ca. 1,8 | Lepomis macrochirus | Proc. 3rd. Ann. Symp |

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

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

**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**

There are no data available on the mixture itself.

**Further information**

Discharge into the environment must be avoided.  
Do not empty into drains.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.  
Do not allow to enter into surface water or drains.

**Contaminated packaging**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**SECTION 14: Transport information**



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**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.
- 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 dangerous good in sense of this transport regulation.

**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**

Restrictions on use (REACH, annex XVII):

Entry 75

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

**National regulatory information**

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

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 12.

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#### 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%  
Acute Tox: Acute toxicity  
STOT RE: Specific target organ toxicity - repeated exposure

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

|        |  |
|--------|--|
| H332   | Harmful if inhaled.  |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| EUH210 | Safety data sheet available on request.                            |

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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.)*