

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

|              |                               |
|--------------|-------------------------------|
| Product name | EDTA                          |
| CAS number   | 194491-31-1                   |
| Synonyms     | EDTA tetrasodium salt hydrate |

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

|                 |                      |
|-----------------|----------------------|
| Identified uses | Laboratory chemicals |
|-----------------|----------------------|

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

|           |  |
|-----------|--|
| Company   | Lab Alley, LLC<br>12501 Pauls Valley Road<br>Austin, Texas 78737<br>U.S.A. |
| Telephone | 512-668-9918   |
| Fax       | 512-886-4008   |

#### 1.4 Emergency telephone

|                   |                              |          |
|-------------------|------------------------------|----------|
| Emergency Phone # | US & Canada: 1-800-535-5053  | INFOTRAC |
|                   | International 1-352-323-3500 | INFOTRAC |

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

|  |            |
|--|------------|
| Acute oral toxicity                              | Category 4 |
| Acute Inhalation Toxicity - Dusts and Mists      | Category 4 |
| Serious Eye Damage/Eye Irritation                | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |
| Target Organs - Respiratory system.              |            |

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

Causes serious eye damage. May causes respiratory irritation. Harmful if swallowed or if inhaled.

Precautionary statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal

Dispose of contents/container to an approved waste disposal plant.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

| Chemical name              | Common name and synonyms | CAS number  | Concentration |
|----------------------------|--------------------------|-------------|---------------|
| EDTA, tetrasodium, hydrate | -                        | 194491-31-1 | >95%          |
| Tetrasodium EDTA           | -                        | 64-02-8     | -             |

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

#### General advice

If inhaled

Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.

- In case of skin contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
- In case of eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
- If swallowed** Do NOT induce vomiting. Get medical attention.

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

Cause severe eye damage.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

**Suitable extinguishing media** Water spray, carbon dioxide, dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** No information available.

#### 5.2 Specific hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Hazardous combustion products: Nitrogen oxides, carbon monoxides, carbon dioxides, ammonia.

#### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 5.4 Further information

**Flash Point** No information available

**Autoignition Temperature** No information available

##### Explosion limits

**Upper** No data available  
**Lower** No data available  
**Sensitivity to Mechanical Impact** No information available.  
**Sensitivity to Static Discharge** No information available.

##### NFPA

| Health | Flammability | Instability | Physical hazards |
|--------|--------------|-------------|------------------|
| 2      | 1            | 0           | N/A              |

## SECTION 6: Accidental release measures

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

Use personal protective equipment as required. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing.

### 6.2 Environmental precautions

Avoid release to the environment. See Section 12 for additional ecological information.

### 6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Sweep up and shovel into suitable containers for disposal.

### 6.4 Reference to other sections

See section 2 for full list of hazard and precaution statements.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Precautions on safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

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

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible materials.

#### Incompatibilities

Strong acids. Metals. Strong bases. Oxidizing agent.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Biological occupational exposure limits

No information available.

### 8.2 Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

#### Respiratory protection

No protective equipment is needed under normal use conditions.

#### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|  |                          |
|--|--------------------------|
| Physical State                         | Solid                    |
| Appearance                             | No information available |
| Odor                                   | No information available |
| Odor Threshold                         | No information available |
| pH                                     | No information available |
| Melting Point/Range                    | 300 °C / 572 °F          |
| Boiling Point/Range                    | No information available |
| Evaporation Rate                       | No information available |
| Flammability (solid)                   | No information available |
| Flammability or explosive limit        |                          |
| Upper                                  | No data available        |
| Lower                                  | No data available        |
| Vapor Pressure                         | No information available |
| Vapor Density                          | No information available |
| Density                                | No information available |
| Solubility                             | Soluble in water         |
| Partition coefficient; n-octanol/water | No information available |
| Autoignition Temp                      | No information available |
| Decomposition Temp                     | No information available |
| Viscosity                              | No information available |
| Molecular Formula                      | C10H12N2Na4O8.xH2O       |
| Molecular Weight                       | 380.16                   |

VOC Content(%)  
Oxidizing properties

No information available  
No information available

## 9.2 Other safety information

No information available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Avoid dust formation. Incompatible products. Excess heat.

### 10.5 Incompatible materials

Strong acids, metals, strong bases, oxidizing agent.

### 10.6 Hazardous decomposition products

Nitrogen oxides, carbon monoxide, carbon dioxide, ammonia.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

#### Acute toxicity

| Component | LD50 Oral               | LD50 Dermal | LC50 Inhalation |
|-----------|-------------------------|-------------|-----------------|
| EDTA      | 1780 - 2000 mg/kg (rat) | -           | -               |

#### Skin corrosion/irritation

Irritating to skin.

#### Serious eye damage/eye irritation

Cause severe eye burns.

#### Respiratory or skin sensitization

Irritating to respiratory system.

#### Germ cell mutagenicity

No information available.

## Carcinogenicity

| Component | CAS         | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|-----------|-------------|------------|------------|------------|------------|------------|
| EDTA      | 194491-31-1 | Not listed | Not listed | Not listed | Not listed | Not listed |

## Specific target organ toxicity - single exposure

Respiratory system

## Specific target organ toxicity - repeated exposure

None known

## Reproductive toxicity

No information available.

## Chronic effects

No information available

## 11.2 Additional Information

No information available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product |      | Species                | Test Results         |
|---------|------|------------------------|----------------------|
| EDTA    | EC50 | Desmodemus subspicatus | 1.01 mg/L 72 h       |
|         | LC50 | Lepomis macrochirus    | 121 - 1592 mg/L 96 h |
|         | EC50 | Daphnia magna          | 140 mg/L 48 h        |

### 12.2 Persistence and degradability

Persistence is unlikely.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

Will likely be mobile in the environment due to its water solubility.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available

### 12.7 Other adverse effects

The toxicological properties have not been fully investigated.

## SECTION 13: Disposal considerations

## 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

### SECTION 14: Transport information

#### **DOT (US)**

Not regulated.

#### **IMDG**

Not regulated.

#### **IATA**

Not regulated.

### SECTION 15: Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not listed.

#### **CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

#### **SARA 304 Emergency release notification**

Not listed.

#### **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

##### **SARA 302 Extremely hazardous substance**

Not listed.

##### **SARA 311/312 Hazardous**

See section 2 for more information.

##### **SARA 313 (TRI reporting)**

Not regulated

#### **Other federal regulations**

##### **Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated

##### **Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.



**Safe Drinking Water Act**

Not regulated

**FEMA Priority Substances Respiratory Health and Safety in the Flavor  
Manufacturing Workplace**

Not listed

**US state regulations**

**US. Massachusetts RTK - Substance List**

Not listed

**US. New Jersey Worker and Community Right-to-Know Act**

Not listed

**US. Pennsylvania Worker and Community Right-to-Know Law**

Not listed

**California Proposition 65**

Not listed

**SECTION 16: Other information**

Issue date: 05/14/2024

Revision 1: 08/06/2024

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.