

# SAFETY DATA SHEET

Creation Date 03-Sep-2009

Revision Date 19-Dec-2025

Revision Number 9

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

## 1. Identification

**Product Name** Ethylenediaminetetraacetic acid, disodium salt dihydrate

**Cat No. :** AC409970000; AC409970025; AC409970050; AC409971000; AC409975000

**CAS No** 6381-92-6  
**Synonyms** (Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Disodium edetate dihydrate; EDTA, disodium salt dihydrate

**Recommended Use** Laboratory chemicals.  
**Uses advised against** Food, drug, pesticide or biocidal product use.

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

#### Company

Fisher Scientific Company  
One Reagent Lane  
Fair Lawn, NJ 07410  
Tel: (201) 796-7100

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11  
Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99  
**CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

### **Classification**

This chemical is considered hazardous according to [US] OSHA (29 CFR 1910.1200, 2024)

|                                                      |            |
|------------------------------------------------------|------------|
| Acute Inhalation Toxicity - Dusts and Mists          | Category 4 |
| Specific target organ toxicity - (repeated exposure) | Category 2 |
| Target Organs - Respiratory system.                  |            |

### Label Elements

#### **Signal Word**

Warning

### Hazard Statements

Harmful if inhaled

May cause damage to organs through prolonged or repeated exposure



### Precautionary Statements

#### Prevention

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

#### Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

#### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

#### Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

## 3. Composition/information on Ingredients

| Component                                                | CAS No    | Weight % |
|----------------------------------------------------------|-----------|----------|
| Ethylenediaminetetraacetic acid, disodium salt dihydrate | 6381-92-6 | <=100    |
| Disodium EDTA                                            | 139-33-3  | -        |

## 4. First-aid measures

#### General Advice

If symptoms persist, call a physician.

#### Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

#### Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.

#### Inhalation

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

#### Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

#### Most important symptoms and effects

None reasonably foreseeable.

#### Notes to Physician

Treat symptomatically

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable Extinguishing Media** No information available

**Flash Point** No information available  
**Method -** 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

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors.

### Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### 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.

### NFPA

**Health**  
2

**Flammability**  
1

**Instability**  
0

**Physical hazards**  
N/A

## 6. Accidental release measures

**Personal Precautions** Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological Information.

**Methods for Containment and Clean Up** Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

## 7. Handling and Storage

**Handling** Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid ingestion and inhalation. Avoid dust formation. Do not get in eyes, on skin, or on clothing.

**Storage.** Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls / personal protection

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

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

### Personal Protective Equipment

|                                 |                                                                                                                                                                                                                                                   |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face Protection</b>      | 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.                                                                       |
| <b>Skin and body protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.                                                                                                                                                                         |
| <b>Respiratory Protection</b>   | Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. |
| <b>Recommended Filter type:</b> | Particulates filter conforming to EN 143.                                                                                                                                                                                                         |
| <b>Hygiene Measures</b>         | Handle in accordance with good industrial hygiene and safety practice.                                                                                                                                                                            |

## 9. Physical and chemical properties

|                                                |                            |                 |                 |
|------------------------------------------------|----------------------------|-----------------|-----------------|
| <b>Appearance</b>                              |                            |                 |                 |
| <b>Physical State</b>                          | Solid                      |                 |                 |
| <b>Color</b>                                   | White                      |                 |                 |
| <b>Odor</b>                                    | Odorless                   |                 |                 |
| <b>Odor Threshold</b>                          | No information available   |                 |                 |
| <b>Property</b>                                | <b>Values</b>              | <b>Remarks</b>  | <b>• Method</b> |
| <b>Melting Point/Range</b>                     | 252 °C / 485.6 °F          |                 |                 |
| <b>Softening Point</b>                         | No data available          |                 |                 |
| <b>Boiling Point/Range</b>                     | No information available   |                 |                 |
| <b>Flash Point</b>                             | No information available   |                 |                 |
| <b>Flammability (liquid)</b>                   | Not applicable             |                 |                 |
| <b>Flammability (solid,gas)</b>                | No information available   |                 |                 |
| <b>Explosion Limits</b>                        | No data available          |                 |                 |
| <b>Autoignition Temperature</b>                | No data available          |                 |                 |
| <b>Decomposition Temperature</b>               | > 252°C                    |                 |                 |
| <b>pH</b>                                      | 4-6                        | 5% aq. solution |                 |
| <b>Viscosity</b>                               | Not applicable             | Solid           |                 |
| <b>Water Solubility</b>                        | Soluble                    |                 |                 |
| <b>Solubility in other solvents</b>            | No information available   |                 |                 |
| <b>Partition Coefficient (n-octanol/water)</b> |                            |                 |                 |
| <b>Component</b>                               | <b>log Pow</b>             |                 |                 |
| Disodium EDTA                                  | -4.3                       |                 |                 |
| <b>Vapor Pressure</b>                          | No data available          |                 |                 |
| <b>Density / Specific Gravity</b>              | No data available          |                 |                 |
| <b>Bulk Density</b>                            | No data available          |                 |                 |
| <b>Vapor Density</b>                           | Not applicable             | Solid           |                 |
| <b>Particle characteristics</b>                | No data available          |                 |                 |
| <b>Other Information</b>                       |                            |                 |                 |
| <b>Molecular Formula</b>                       | C10 H14 N2 Na2 O8 . 2 H2 O |                 |                 |
| <b>Molecular Weight</b>                        | 372.23                     |                 |                 |
| <b>Evaporation Rate</b>                        | Not applicable - Solid     |                 |                 |

## 10. Stability and reactivity

|                        |                                            |
|------------------------|--------------------------------------------|
| <b>Reactive Hazard</b> | None known, based on information available |
| <b>Stability</b>       | Stable under normal conditions.            |

|                                         |                                                           |
|-----------------------------------------|-----------------------------------------------------------|
| <b>Conditions to Avoid</b>              | Incompatible products. Excess heat. Avoid dust formation. |
| <b>Incompatible Materials</b>           | Strong oxidizing agents                                   |
| <b>Hazardous Decomposition Products</b> | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )   |
| <b>Hazardous Polymerization</b>         | Hazardous polymerization does not occur.                  |
| <b>Hazardous Reactions</b>              | None under normal processing.                             |

## 11. Toxicological information

### Information on expected route of exposure

|                   |                                    |
|-------------------|------------------------------------|
| <b>Inhalation</b> | Not an expected route of exposure. |
| <b>Ingestion</b>  | May be harmful if swallowed.       |
| <b>Eyes</b>       | Avoid contact with eyes.           |
| <b>Skin</b>       | Avoid contact with skin.           |

### Toxicology data for the components

| Component     | LD50 Oral             | LD50 Dermal | LC50 Inhalation |
|---------------|-----------------------|-------------|-----------------|
| Disodium EDTA | LD50 > 2 g/kg ( Rat ) | -           | -               |

|                                             |                          |
|---------------------------------------------|--------------------------|
| <b>Toxicologically Synergistic Products</b> | No information available |
|---------------------------------------------|--------------------------|

|                                       |                   |
|---------------------------------------|-------------------|
| <b>(b) skin corrosion/irritation;</b> | No data available |
|---------------------------------------|-------------------|

|                                           |                   |
|-------------------------------------------|-------------------|
| <b>(c) serious eye damage/irritation;</b> | No data available |
|-------------------------------------------|-------------------|

|                                               |                   |
|-----------------------------------------------|-------------------|
| <b>(d) respiratory or skin sensitization;</b> |                   |
| <b>Respiratory</b>                            | No data available |
| <b>Skin</b>                                   | No data available |

|                                    |                   |
|------------------------------------|-------------------|
| <b>(e) germ cell mutagenicity;</b> | No data available |
|------------------------------------|-------------------|

#### **(f) carcinogenicity;**

The table below indicates whether each agency has listed any ingredient as a carcinogen

| Component                                                | CAS No    | IARC       | NTP        | ACGIH      | OSHA       | Mexico     |
|----------------------------------------------------------|-----------|------------|------------|------------|------------|------------|
| Ethylenediaminetetraacetic acid, disodium salt dihydrate | 6381-92-6 | Not listed | Not listed | Not listed | Not listed | Not listed |
| Disodium EDTA                                            | 139-33-3  | Not listed | Not listed | Not listed | Not listed | Not listed |

|                                   |                   |
|-----------------------------------|-------------------|
| <b>(g) reproductive toxicity;</b> | No data available |
|-----------------------------------|-------------------|

|                                  |                   |
|----------------------------------|-------------------|
| <b>(h) STOT-single exposure;</b> | No data available |
|----------------------------------|-------------------|

|                                    |            |
|------------------------------------|------------|
| <b>(i) STOT-repeated exposure;</b> | Category 2 |
|------------------------------------|------------|

**Route of exposure**  
**Target Organs**

Inhalation  
Respiratory system.

**(j) aspiration hazard;**

Not applicable  
Solid

**Other Adverse Effects**

The toxicological properties have not been fully investigated.

**Symptoms / effects, both acute and delayed**

No information available.

**Other Adverse Effects**

The toxicological properties have not been fully investigated.

**Endocrine Disrupting Properties**

This product does not contain any known or suspected endocrine disruptors.

## 12. Ecological information

### Ecotoxicity

Do not empty into drains. .

| Component     | Freshwater Algae | Freshwater Fish                     | Microtox           | Water Flea     |
|---------------|------------------|-------------------------------------|--------------------|----------------|
| Disodium EDTA | Not listed       | Leuciscus idus: LC50 > 500 mg/L 96h | EC50 = 56 mg/L 8 h | > 100 mg/L 24h |

**Persistence and Degradability**

Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation**

No information available.

**Mobility**

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

| Component     | log Pow |
|---------------|---------|
| Disodium EDTA | -4.3    |

## 13. Disposal considerations

**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.

## 14. Transport information

**DOT**  
**TDG**  
**IATA**  
**IMDG/IMO**

Not regulated  
Not regulated  
Not regulated  
Not regulated

## 15. Regulatory Information

### United States of America Inventory

| Component                                                | CAS No    | TSCA | TSCA Inventory notification - Active-Inactive | TSCA - EPA Regulatory Flags |
|----------------------------------------------------------|-----------|------|-----------------------------------------------|-----------------------------|
| Ethylenediaminetetraacetic acid, disodium salt dihydrate | 6381-92-6 | -    | -                                             | -                           |
| Disodium EDTA                                            | 139-33-3  | X    | ACTIVE                                        | -                           |

### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

**Ethylenediaminetetraacetic acid, disodium salt dihydrate**

Revision Date 19-Dec-2025

**TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)**

Not applicable

**TSCA 12(b)** - Notices of Export

Not applicable

**International Inventories**

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

| Component                                                | CAS No    | DSL | NDSL | EINECS    | PICCS | ENCS | ISHL | AICS | IECSC | KECL     |
|----------------------------------------------------------|-----------|-----|------|-----------|-------|------|------|------|-------|----------|
| Ethylenediaminetetraacetic acid, disodium salt dihydrate | 6381-92-6 | X   | -    | -         | X     | X    |      | X    | X     | -        |
| Disodium EDTA                                            | 139-33-3  | X   | -    | 205-358-3 | X     | X    | X    | X    | X     | KE-13651 |

KECL - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

**CWA (Clean Water Act)**

Not applicable

**Clean Air Act**

Not applicable

**OSHA - Occupational Safety and Health Administration**

Not applicable

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Not applicable

**U.S. Department of Transportation**

Reportable Quantity (RQ): N  
DOT Marine Pollutant N  
DOT Severe Marine Pollutant N

**U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

**Other International Regulations****Mexico - Grade**

No information available

Authorisation/Restrictions according to EU REACH Not applicable

| Component                                                   | CAS No    | REACH (1907/2006) -<br>Annex XIV - Substances<br>Subject to Authorization | REACH (1907/2006) -<br>Annex XVII - Restrictions<br>on Certain Dangerous<br>Substances | REACH Regulation (EC<br>1907/2006) article 59 -<br>Candidate List of<br>Substances of Very High<br>Concern (SVHC) |
|-------------------------------------------------------------|-----------|---------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Ethylenediaminetetraacetic acid,<br>disodium salt dihydrate | 6381-92-6 | -                                                                         | -                                                                                      | -                                                                                                                 |
| Disodium EDTA                                               | 139-33-3  | -                                                                         | -                                                                                      | -                                                                                                                 |

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

| Component                                                   | CAS No    | OECD HPV       | Persistent Organic<br>Pollutant | Ozone Depletion<br>Potential | Restriction of<br>Hazardous<br>Substances (RoHS) |
|-------------------------------------------------------------|-----------|----------------|---------------------------------|------------------------------|--------------------------------------------------|
| Ethylenediaminetetraacetic<br>acid, disodium salt dihydrate | 6381-92-6 | Not applicable | Not applicable                  | Not applicable               | Not applicable                                   |
| Disodium EDTA                                               | 139-33-3  | Listed         | Not applicable                  | Not applicable               | Not applicable                                   |

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)?

Not applicable

Other International Regulations

| Component                                                   | CAS No    | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Major Accident<br>Notification | Seveso III Directive<br>(2012/18/EC) -<br>Qualifying Quantities<br>for Safety Report<br>Requirements | Rotterdam<br>Convention (PIC) | Basel Convention<br>(Hazardous Waste) |
|-------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|
| Ethylenediaminetetraacetic<br>acid, disodium salt dihydrate | 6381-92-6 | Not applicable                                                                                        | Not applicable                                                                                       | Not applicable                | Not applicable                        |
| Disodium EDTA                                               | 139-33-3  | Not applicable                                                                                        | Not applicable                                                                                       | Not applicable                | Not applicable                        |

## 16. Other Information

Prepared By

Product stewardship (Regulatory Affairs)  
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Revision Summary

Updated to the U.S. Department of Labor's Occupational Safety and Health Administration (OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200, 2024), May 20, 2024, effective July 19, 2024.

### Disclaimer

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

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**End of SDS**