

# SAFETY DATA SHEET

Creation Date 03-September-2009

Revision Date 19-December-2025

Revision Number 8

This safety data sheet was created pursuant to the requirements of: Canada WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR) - SOR 2022-272

## 1. Identification

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

**Cat No. :** AC327200000; AC327200025; AC327201000; AC327205000

**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

**Importer/Distributor**  
Fisher Scientific  
112 Colonnade Road,  
Ottawa, ON K2E 7L6,  
Canada  
Tel: 1-800-234-7437

Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

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

#### 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

**WHMIS 2015 Classification** This product is hazardous in accordance with the Canada Hazardous Products Act (HPA) and Hazardous Products Regulation (HPR), as amended (SOR/2022-272)

|                                                             |            |
|-------------------------------------------------------------|------------|
| <b>Acute Inhalation Toxicity</b>                            | Category 4 |
| <b>Specific target organ toxicity - (repeated exposure)</b> | 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

Do not breathe dust/fumes/gas/mist/vapours/spray  
Use only outdoors or in a well-ventilated area

##### Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing  
Call a POISON CENTER/ doctor if you feel unwell

##### Disposal

Dispose of contents/container to an approved waste disposal plant

### 3. Composition/Information on Ingredients

| Component                                                                   | CAS-No    | Weight % |
|-----------------------------------------------------------------------------|-----------|----------|
| Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate | 6381-92-6 | <=100    |
| Disodium EDTA                                                               | 139-33-3  | -        |

### 4. First-aid measures

|                                                               |                                                                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>General Advice</b>                                         | If symptoms persist, call a physician.                                                                            |
| <b>Eye Contact</b>                                            | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.   |
| <b>Skin Contact</b>                                           | Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. |
| <b>Inhalation</b>                                             | Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.      |
| <b>Ingestion</b>                                              | Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.             |
| <b>Most important symptoms/effects<br/>Notes to Physician</b> | None reasonably foreseeable.<br>Treat symptomatically                                                             |

### 5. Fire-fighting measures

|                                       |                                                                                       |
|---------------------------------------|---------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>   | Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol-resistant foam. |
| <b>Unsuitable Extinguishing Media</b> | No information available                                                              |
| <b>Flash Point</b>                    | No information available                                                              |
| <b>Method -</b>                       | No information available                                                              |

|                                         |                          |
|-----------------------------------------|--------------------------|
| <b>Autoignition Temperature</b>         | No information available |
| <b>Explosion Limits</b>                 |                          |
| <b>Upper</b>                            | No data available        |
| <b>Lower</b>                            | No data available        |
| <b>Sensitivity to Mechanical Impact</b> | No information available |
| <b>Sensitivity to Static Discharge</b>  | 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

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

### 6. Accidental release measures

|                                  |                                                                                                    |
|----------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Personal Precautions</b>      | Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.  |
| <b>Environmental Precautions</b> | Should not be released into the environment. See Section 12 for additional Ecological Information. |

|                                             |                                                                                                              |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Methods for Containment and Clean Up</b> | Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------|

### 7. Handling and storage

|                 |                                                                                                                                                                                     |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling</b> | 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. |
| <b>Storage.</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.                                                           |

### 8. Exposure controls / personal protection

|                            |                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Exposure Guidelines</b> | 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.  
Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

#### Personal protective equipment

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye 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>Hand Protection</b> | Wear appropriate protective gloves and clothing to prevent skin exposure.                                                                                                   |

| <b>Glove material</b> | <b>Breakthrough time</b>          | <b>Glove thickness</b> | <b>Glove comments</b>  |
|-----------------------|-----------------------------------|------------------------|------------------------|
| Nitrile rubber        | See manufacturers recommendations | -                      | Splash protection only |
| Neoprene              |                                   |                        |                        |
| Natural rubber        |                                   |                        |                        |
| PVC                   |                                   |                        |                        |
| Butyl rubber          |                                   |                        |                        |

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

#### **Respiratory Protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly

**Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

#### **Environmental exposure controls**

No information available.

#### **Hygiene Measures**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

## 9. Physical and chemical properties

#### **Appearance**

##### **Physical State**

Solid

##### **Color**

White

##### **Odor**

Odorless

##### **Odor Threshold**

No information available

#### **Property**

##### **Values**

##### **Remarks**

##### **• Method**

##### **Melting Point/Range**

252 °C / 485.6 °F

##### **Softening Point**

No data available

##### **Boiling Point/Range**

No information available

##### **Flash Point**

No information available

##### **Flammability (liquid)**

Not applicable

##### **Flammability (solid,gas)**

No information available

##### **Explosion Limits**

No data available

**Method -** No information available

Solid

##### **Autoignition Temperature**

No data available

##### **Decomposition Temperature**

> 252°C

##### **pH**

4-6

5% aq. solution

##### **Viscosity**

Not applicable

Solid

##### **Water Solubility**

Soluble

##### **Solubility in other solvents**

No information available

##### **Partition Coefficient (n-octanol/water)**

##### **Component**

log Pow

|                            |                   |       |
|----------------------------|-------------------|-------|
| Disodium EDTA              | -4.3              |       |
| Vapor Pressure             | No data available |       |
| Density / Specific Gravity | No data available |       |
| Bulk Density               | No data available |       |
| Vapor Density              | Not applicable    | Solid |
| Particle characteristics   | No data available |       |

|                          |                            |
|--------------------------|----------------------------|
| <b>Other Information</b> |                            |
| Molecular Formula        | C10 H14 N2 Na2 O8 . 2 H2 O |
| Molecular Weight         | 372.23                     |
| Evaporation Rate         | Not applicable - Solid     |

## 10. Stability and reactivity

|                                  |                                                           |
|----------------------------------|-----------------------------------------------------------|
| Reactive Hazard                  | None known, based on information available                |
| Stability                        | Stable under normal conditions.                           |
| Conditions to Avoid              | Incompatible products. Excess heat. Avoid dust formation. |
| Incompatible Materials           | Strong oxidizing agents                                   |
| Hazardous Decomposition Products | Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> )   |
| Hazardous Polymerization         | Hazardous polymerization does not occur.                  |
| Hazardous Reactions              | None under normal processing.                             |

## 11. Toxicological information

### Information on expected route of exposure

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

### Toxicology data for the components

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

|                                        |                          |
|----------------------------------------|--------------------------|
| Toxicologically Synergistic Products   | No information available |
| (b) skin corrosion/irritation;         | No data available        |
| (c) serious eye damage/irritation;     | No data available        |
| (d) respiratory or skin sensitization; |                          |
| Respiratory                            | No data available        |
| Skin                                   | No data available        |
| (e) germ cell mutagenicity;            | 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     |
|------------------------------------------------------------------------------------------|-----------|------------|------------|------------|------------|------------|
| Glycine,<br>N,N-1,2-ethanediylbis[<br>N-(carboxymethyl)-,<br>disodium salt,<br>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 |

**(g) reproductive toxicity;**

No data available

**(h) STOT-single exposure;**

No data available

**(i) STOT-repeated exposure;**

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

|                 |               |
|-----------------|---------------|
| <u>DOT</u>      | Not regulated |
| <u>TDG</u>      | Not regulated |
| <u>IATA</u>     | Not regulated |
| <u>IMDG/IMO</u> | Not regulated |

## 15. Regulatory information

### International Inventories

| Component                                                                  | CAS-No    | DSL | NDSL | TSCA | TSCA Inventory notification - Active-Inactive | EINECS    | ELINCS | NLP |
|----------------------------------------------------------------------------|-----------|-----|------|------|-----------------------------------------------|-----------|--------|-----|
| Glycine, N,N-1,2-ethanediybis[N-(carboxymethyl)-, disodium salt, dihydrate | 6381-92-6 | X   | -    | -    | -                                             | -         | -      | -   |
| Disodium EDTA                                                              | 139-33-3  | X   | -    | X    | ACTIVE                                        | 205-358-3 | -      | -   |

| Component                                                                  | CAS-No    | IECSC | KECL     | ENCS | ISHL | TCSI | AICS | NZIoC | PICCS |
|----------------------------------------------------------------------------|-----------|-------|----------|------|------|------|------|-------|-------|
| Glycine, N,N-1,2-ethanediybis[N-(carboxymethyl)-, disodium salt, dihydrate | 6381-92-6 | X     | -        | X    | -    | X    | X    | X     | X     |
| Disodium EDTA                                                              | 139-33-3  | X     | KE-13651 | X    | X    | X    | X    | X     | X     |

#### Legend:

X - Listed '-' - Not listed

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

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

### Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and its amendments and meets the requirements of the HPR (Paragraph 13(1)(a) of the revised Hazardous Products Act (HPA)).

### Other International Regulations

Authorisation/Restrictions according to EU REACH Not applicable

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

Not applicable

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

| Component                                                        | CAS-No    | OECD HPV       | Persistent Organic Pollutant | Ozone Depletion Potential | Restriction of Hazardous Substances (RoHS) |
|------------------------------------------------------------------|-----------|----------------|------------------------------|---------------------------|--------------------------------------------|
| Glycine, N,N-1,2-ethanediybis[N-(carboxymethyl)-, disodium salt, | 6381-92-6 | Not applicable | Not applicable               | Not applicable            | Not applicable                             |

|               |          |        |                |                |                |
|---------------|----------|--------|----------------|----------------|----------------|
| dihydrate     |          |        |                |                |                |
| Disodium EDTA | 139-33-3 | Listed | Not applicable | Not applicable | Not applicable |

| 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) |
|---------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------|
| Glycine,<br>N,N-1,2-ethanediylbis[N-(carb<br>oxymethyl)-, disodium salt,<br>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

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**Revision Summary**

This document has been updated to comply with the requirements of WHMIS 2015 which includes the amended Hazardous Products Act (HPA) and the Hazardous Products Regulation (HPR) to align with the Globally Harmonised System (GHS) (V7/8) for the Classification and Labelling of Chemicals.

### 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

**End of SDS**