

Safety Data Sheet

Ethylenediaminetetraacetic acid

Version : V2.0.0.1

Report No. : BWJ6080-2016-MSDS-US

Creation Date : 2025/10/09

Revision Date : -



*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)

1 Identification

Product identifier

| | |
|-------------------|---------------------------------|
| Product Name | Ethylenediaminetetraacetic acid |
| Cat No. | BWJ6080-2016 |
| CAS No. | 60-00-4 |
| EC No. | 200-449-4 |
| Molecular Formula | C10H16N2O8 |

Recommended use of the product and restrictions on use

| | |
|--------------------------|------------------------------|
| Relevant identified uses | Please consult manufacturer. |
| Uses advised against | Please consult manufacturer. |

Details of the supplier of the Safety Data Sheet

| | |
|------------------------|--|
| Name of the company | Weiyel Inc |
| Address of the company | Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China |
| Post code | 465350 |
| Telephone number | 010-58103678 |
| Fax number | 010-84840368 |
| E-mail address | info@weiyel.com |

Emergency phone number

| | |
|------------------------|--------------|
| Emergency phone number | 010-58103678 |
|------------------------|--------------|

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

| | |
|-------------------------------|------------|
| Acute Toxicity - Oral | Category 2 |
| Serious eye damage/irritation | Category 2 |

Label elements

| | |
|-------------------|---------------|
| Hazard pictograms | |
| Signal word | Danger |

Hazard statements

| | |
|-------------|-------------------------------|
| H300 | Fatal if swallowed |
| H319 | Causes serious eye irritation |

Precautionary statements

◆ Prevention

| | |
|-------------|---|
| P264 | Wash hands and other parts of the body (if related) thoroughly after handling. |
| P270 | Do not eat, drink or smoke when using this product. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |

◆ Response

| | |
|-----------------------|--|
| P321 | Specific treatment (see related instructions on the label). |
| P330 | Rinse mouth. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |

◆ Storage

| | |
|-------------|------------------|
| P405 | Store locked up. |
|-------------|------------------|

◆ Disposal

| | |
|-------------|---|
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
|-------------|---|

Other hazards

| | |
|--|-----------------|
| | Not applicable. |
|--|-----------------|

Hazard description

◆ Physical and chemical hazards

| | |
|--|--------------------------|
| | No information available |
|--|--------------------------|

◆ Health hazards

| | |
|---------------------|--|
| Inhaled | Cough. |
| Ingestion | Abdominal pain. Diarrhoea. |
| Skin Contact | Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. |
| Eye | Redness. Pain. |

◆ Environmental hazards

| | |
|--|--------------------------------------|
| | Please refer to 12th chapter of SDS. |
|--|--------------------------------------|

3 Composition/information on ingredients

Substance/mixture

| | |
|--|-----------|
| | Substance |
|--|-----------|

| Component | CAS No. | EC No. | Concentration (wt, %) |
|-------------|---------|-----------|-----------------------|
| Edetic acid | 60-00-4 | 200-449-4 | 99.0 |

4 First-aid measures

Description of first aid measures

| | |
|-----------------------------------|--|
| General advice | Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance. |
| Eye contact | Rinse with plenty of water (remove contact lenses if easily possible). |
| Skin contact | Rinse skin with plenty of water or shower. |
| Ingestion | Rinse mouth. Give one or two glasses of water to drink. |
| Inhalation | Fresh air, rest. |
| Protecting of first-aiders | Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination. |

| Most important symptoms/effects, acute and delayed

| | |
|---|--|
| 1 | Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure. |
|---|--|

| Indication of any immediate medical attention and special treatment needed

| | |
|---|--------------------------|
| 1 | Treat symptomatically. |
| 2 | Symptoms may be delayed. |

5 Fire-fighting measures

| Extinguishing media

| | |
|---------------------------------------|--|
| Suitable extinguishing media | Small fire: dry chemical, CO ₂ or water spray; Large fire: dry chemical, CO ₂ , alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or highway tanks: Fight fire from maximum distance or use unmanned master stream devices or monitor nozzles. Cool containers with flooding quantities of water until well after fire is out. Do not get water inside containers. |
| Unsuitable extinguishing media | No information available. |

| Specific hazards arising from the substance or mixture

| | |
|---|---|
| 1 | May emit poisonous fumes on fire. |
| 2 | Development of hazardous combustion gases or vapor possible in the event of fire. |
| 3 | May expand or decompose explosively when heated or involved in fire. |

| Special protective equipment and precautions for fire-fighters

| | |
|---|---|
| 1 | As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear. |
| 2 | Fight fire from a safe distance, with adequate cover. |
| 3 | Prevent fire extinguishing water from contaminating surface water or the ground water system. |

6 Accidental release measures

| Personal precautions, protective equipment and emergency procedures

| | |
|---|---|
| 1 | Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. |
| 2 | Do not touch or walk through spilled material. |
| 3 | Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. |
| 4 | Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. |
| 5 | Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. |
| 6 | Use personal protective equipment, do not breathe dust/fume. |

| Environmental precautions

| | |
|---|---|
| 1 | Prevent further leakage or spillage if safe to do so. |
| 2 | Discharge into the environment must be avoided. |

Methods and materials for containment and cleaning up

| | |
|---|---|
| 1 | Isolation of contaminated areas and restrictions on access. |
| 2 | It is recommended that emergency personnel wear dust masks and wear anti-virus suits. |
| 3 | Do not touch broken containers and spills before putting on appropriate protective clothing. |
| 4 | Cover the spill with a plastic sheet to reduce scattering. |
| 5 | Cut off the source of the leak as much as possible. |
| 6 | Keep leaks in a ventilated place. |
| 7 | It is recommended that emergency personnel wear dust masks. |
| 8 | Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak. |
| 9 | Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. |

7 Handling and storage

Precautions for safe handling

| | |
|---|---|
| 1 | Handling is performed in a well ventilated place. |
| 2 | Wear suitable protective equipment. |
| 3 | Avoid contact with skin and eyes. |
| 4 | Keep away from heat/sparks/open flames/ hot surfaces. |

Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| 1 | Keep containers tightly closed. |
| 2 | Keep containers in a dry, cool and well-ventilated place. |
| 3 | Keep away from heat/sparks/open flames/hot surfaces. |

8 Exposure controls/personal protection


Control parameters

| | |
|------------------------------------|-------------------------|
| Occupational Exposure limit values | No relevant regulations |
|------------------------------------|-------------------------|

Engineering controls

| | |
|---|--|
| 1 | Ensure adequate ventilation, especially in confined areas. |
| 2 | Ensure that eyewash stations and safety showers are close to the workstation location. |
| 3 | Use explosion-proof electrical/ventilating/lighting/equipment. |
| 4 | Set up emergency exit and necessary risk-elimination area. |

Personal protection equipment

| | |
|---------------------|--|
| General requirement |  |
| Eye protection | Must wear appropriate safety goggles. |
| Hand protection | Must wear appropriate chemical protective gloves. |

| | |
|---------------------------------|--|
| Respiratory protection | Must wear appropriate personal dust proof gas mask. |
| Skin and body protection | Must wear appropriate chemical protective clothing and chemical resistant shoes. |

9 Physical and chemical properties and safety characteristics

Physical and chemical properties

| | |
|--|---|
| Appearance (physical state, color, etc.) | White to near white, crystallization |
| Odor | No information available |
| Odor threshold | No information available |
| pH | 2.5 (23°C, 10g/L, Slurry, Calculated) |
| Melting point/freezing point(°C) | 220~245 (Decompose) |
| Initial boiling point and boiling range(°C) | No information available |
| Flash point(Closed cup, °C) | > 100 |
| Evaporation rate | Not applicable |
| Flammability | No information available |
| Upper/lower explosive limits[%(v/v)] | Upper limit : No information available ; Lower limit : No information available |
| Vapor pressure | 2E-12hPa (25°C) |
| Vapor density(Air = 1) | Not applicable |
| Relative density(Water=1) | 0.86 |
| Solubility | 0.5 g/L (20°C) |
| n-octanol/water partition coefficient | -5.01~-3.34 (calculated) |
| Auto-ignition temperature(°C) | > 200 |
| Decomposition temperature(°C) | 240~272 |
| Kinematic viscosity | Not applicable |

10 Stability and reactivity

Stability and reactivity

| | |
|---|--|
| Reactivity | Contact with incompatible substances can cause decomposition or other chemical reactions. |
| Chemical stability | Stable under proper operation and storage conditions. |
| Possibility of hazardous reactions | No information available. |
| Conditions to avoid | Incompatible materials, heat, flame and spark. |
| Incompatible materials | No information available. |
| Hazardous decomposition products | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

11 Toxicological information

Acute toxicity

| Component | LD ₅₀ (oral) | LD ₅₀ (dermal) | LC ₅₀ (inhalation,4h) |
|--------------------|-------------------------|---------------------------|----------------------------------|
| Edetic acid | 30mg/kg(Mouse) | No information available | No information available |

Carcinogenicity

| Component | List of carcinogens by the IARC Monographs | Report on Carcinogens by NTP | OSHA Carcinogen List |
|-------------|--|------------------------------|----------------------|
| Edetic acid | Not Listed | Not Listed | Not Listed |

Others

| Edetic acid(Component) | |
|-------------------------------|--|
| Skin corrosion/irritation | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | Causes serious eye irritation(Category 2) |
| Skin sensitization | Based on available data, the classification criteria are not met |
| Respiratory sensitization | Based on available data, the classification criteria are not met |
| Reproductive toxicity | 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 |
| Germ cell mutagenicity | Based on available data, the classification criteria are not met |

12 Ecological information

Acute aquatic toxicity

| Component | Fish | Crustaceans | Algae or other aquatic plants |
|-------------|---------------------------------------|--|--|
| Edetic acid | LC ₅₀ : 74mg/L (96h)(Fish) | EC ₅₀ : 57mg/L (48h)(Crustaceans) | ErC ₅₀ : 6.0mg/L (72h)(Algae) |

Chronic aquatic toxicity

| Component | Fish | Crustaceans | Algae or other aquatic plants |
|-------------|------------------------|-----------------------------|-------------------------------|
| Edetic acid | NOEC : ≥35.1mg/L(Fish) | NOEC : 5.5mg/L(Crustaceans) | NOEC : 0.32mg/L(Algae) |

Persistence and degradability

| Component | Persistence (water/soil) | Persistence (air) |
|-------------|--------------------------|-------------------|
| Edetic acid | Low | Low |

Bioaccumulative potential

| Component | Bioaccumulative potential | Comments |
|-------------|---------------------------|----------|
| Edetic acid | Low | BCF=123 |

Mobility in soil


| Component | log Koc | Remark |
|-------------|---------|--------------------|
| Edetic acid | 2.49 | 25 °C , MCI method |

13 Disposal considerations

Disposal considerations

| | |
|--------------------------|--|
| Waste chemicals | Before disposal should refer to the relevant national and local laws and regulation. Recommend the use of incineration disposal. |
| Contaminated packaging | Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible. |
| Disposal recommendations | Refer to section waste chemicals and contaminated packaging. |

14 Transport information**Label and Mark**

| | |
|--------------------|---|
| Transporting Label |  |
|--------------------|---|

IMDG-CODE

| | |
|-----------------------------------|------------------------------|
| UN number | 2811 |
| UN proper shipping name | TOXIC SOLID, ORGANIC, N.O.S. |
| Transport hazard class | 6.1 |
| Transport subsidiary hazard class | None |
| Packing group | II |
| Marine pollutant (Yes or no) | No |

IATA-DGR

| | |
|-----------------------------------|------------------------------|
| UN number | 2811 |
| UN proper shipping name | TOXIC SOLID, ORGANIC, N.O.S. |
| Transport hazard class | 6.1 |
| Transport subsidiary hazard class | None |
| Packing group | II |

UN-ADR

| | |
|-----------------------------------|------------------------------|
| UN number | 2811 |
| UN proper shipping name | TOXIC SOLID, ORGANIC, N.O.S. |
| Transport hazard class | 6.1 |
| Transport subsidiary hazard class | None |
| Packing group | II |

Transport in bulk according to IMO instruments

- ◆ Transport in bulk according to Annex II of MARPOL and the IBC code

| | |
|--|---------------|
| | Not Available |
|--|---------------|

- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| | |
|--|---------------|
| | Not Available |
|--|---------------|

- ◆ Transport in bulk in accordance with the IGC Code

| | |
|--|---------------|
| | Not Available |
|--|---------------|

Others

| | |
|----------------------------------|---|
| Precautions for transport | Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements. |
|----------------------------------|---|

15 Regulatory information**International chemical inventory**

| Component | A | B | C | D | E | F | G | H | I | J | K | L | M |
|--------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Edetic acid | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |

- [A] China Inventory of Existing Chemical Substances(IECSC)
 [B] European Inventory of Existing Commercial Chemical Substances(EC inventory)
 [C] United States Toxic Substances Control Act Inventory(TSCA)
 [D] Canadian Domestic Substances List(DSL)
 [E] New Zealand Inventory of Chemicals(NZIoC)
 [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
 [G] Korea Existing Chemicals Inventory(KECL)
 [H] Australian. Inventory of Industrial Chemical (AIICS)
 [I] Japan Inventory of Existing & New Chemical Substances(ENCS)
 [J] Thailand Existing Chemicals Inventory(TECI)
 [K] Mexico National Inventory of Chemical Substances (INSQ)
 [L] Russia Inventory of Existing Substances (DRAFT)
 [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

| Component | A | B | C |
|--------------------|---|---|---|
| Edetic acid | × | × | × |

- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
 [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
 [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

| Component | A | B | C | D | E | F | G | H |
|--------------------|---|---|---|---|---|---|---|---|
| Edetic acid | × | × | √ | √ | √ | √ | √ | × |

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
 [B] US SARA 302- Extremely Hazardous Substance List
 [C] US CERCLA- Hazardous Substances List
 [D] US Massachusetts Right-to-Know Substance List
 [E] US New Jersey Right to Know Hazardous Substance List
 [F] US Pennsylvania Right to Know Hazardous Substance List
 [G] US New York City Right-to-Know Hazardous Substance List
 [H] US California Proposition 65 List

Note:

- “√” Indicates that the substance included in the regulations.
 “×” No data or not included in the regulations.

16 Other information

Information on revision

| | |
|---------------------|------------|
| Creation Date | 2025/10/09 |
| Revision Date | - |
| Reason for revision | - |

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>.
- [2] IARC, website: <http://www.iarc.fr/>.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: <https://www.echemportal.org/echemportal/>.
- [4] CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>.
- [5] NLM: ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>.
- [6] EPA: Integrated Risk Information System, website: <http://cfpub.epa.gov/iris/>.
- [7] U.S. Department of Transportation: ERG, website: <http://www.phmsa.dot.gov/hazmat/library/erg>.
- [8] Germany GESTIS-database on hazard substance, website: <http://gestis-en.itrust.de/>.

Abbreviations and acronyms

| | | | |
|------------------|--------------------------------------|-----------|---|
| CAS | Chemical Abstracts Service | UN | The United Nations |
| PC-STEL | Short term exposure limit | OECD | Organization for Economic Co-operation and Development |
| PC-TWA | Time Weighted Average | IMDG-CODE | International Maritime Dangerous Goods CODE |
| MAC | Maximum Allowable Concentration | IARC | International Agency for Research on Cancer |
| DNEL | Derived No Effect Level | ICAO | International Civil Aviation Organization |
| PNEC | Predicted No Effect Concentration | IATA | International Air Transportation Association |
| NOEC | No Observed Effect Concentration | ACGIH | American Conference of Governmental Industrial Hygienists |
| LC ₅₀ | Lethal Concentration 50% | NFPA | National Fire Protection Association |
| LD ₅₀ | Lethal Dose 50% | NTP | National Toxicology Program |
| EC ₅₀ | Effective Concentration 50% | PBT | Persistent, Bioaccumulative, Toxic |
| EC _x | Effective Concentration X% | vPvB | very Persistent, very Bioaccumulative |
| P _{OW} | Partition coefficient Octanol: Water | CMR | Carcinogens, mutagens or substances toxic to reproduction |
| BCF | Bioconcentration factor | RPE | Respiratory Protective Equipment |
| ED | Endocrine disruptor | HCS | Hazard Communication Standard |

Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.