


Material Safety Data Sheet		
Ethylenediaminetetraacetic Acid Disodium		
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1. Chemical Product and Company Identification

INCI name: Ethylenediaminetetraacetic Acid Disodium

CAS No.: 6381-92-6

Chemical structure: $C_{10}H_{14}N_2O_8Na_2 \cdot 2H_2O$

Trade name: EDTA-2Na

Product application:

- Used as chelating agent in cleaning detergents;
- Used as chelating and sequestering agent in personal care products and cosmetics.

Supplier name: GUANGZHOU YESER CHEMICALS CO., LTD

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2. Hazards Identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards

Not classified.

Acute toxicity (oral) Category 4

H302 Harmful if swallowed

Skin corrosion/irritation Category 2

H315 Causes skin irritation

Serious eye damage/eye irritation Category 2A

H319 Causes serious eye irritation

Specific target organ toxicity (single exposure) Category 3

H335 May cause respiratory irritation

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word

Warning

Hazard Statements

H302 - Harmful if swallowed


H315 - Causes skin irritation

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

Precautionary Statements

P261 - Avoid breathing dust.

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P264 - Wash exposed skin thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear eye protection, protective gloves.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
P311 - Call a POISON CENTER or doctor/physician.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.
Remove
contact lenses, if present and easy to do. Continue rinsing.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.

Supplementary Precautionary Statements

P362 - Take off contaminated clothing and wash before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container to comply with local, state and federal regulations.
If inhaled: Remove person to fresh air and keep comfortable for breathing.


3. Composition/Information on Ingredients

Component	CAS NO.	Percentage, wt, %
Ethylenediaminetetraacetic Acid Disodium	6381-92-6	≥ 99.0

4. First aid Measures

4.1. Description of first aid measures

First-aid measures general:	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation:	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.
First-aid measures after skin contact:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

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First-aid measures after eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion:

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met. Harmful if swallowed.

Symptoms/effects after inhalation:

May cause respiratory irritation.

Symptoms/effects after skin contact:

Causes skin irritation.

Symptoms/effects after eye contact:

Causes serious eye irritation.

Symptoms/effects after ingestion:

Swallowing a small quantity of this material will result in serious health hazard.

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

Treat Symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Extinguishing media

Suitable extinguishing media:

Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media:

Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Special Fire Fighting Procedures

Containers close to fire should be removed immediately or cooled with water.

Protective equipment for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment:

Gloves. Safety glasses. Equip cleanup crew with proper protection.

Emergency procedures:


Evacuate unnecessary personnel. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Avoid generation and spreading of dust. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like.

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Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways.

6.4. Reference to other sections

For waste disposal, see section 13.

7. Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling:

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Use only outdoors or in a well-ventilated area.

Hygiene measures:

Do not eat, drink or smoke when using this product.
Wash exposed skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

Keep container tightly closed.

Incompatible products:

Strong oxidizers.

Incompatible materials:

Sources of ignition. Generation of airborne dust.

Storage class:

Chemical storage.

8. Exposure controls/personal protection

8.1. Control parameters

Ingredient Comments

NUI = Nuisance dust, WEL TWA 4mg/m³ Respirable Dust, 10 mg/m³ Total Dust.

8.2. Exposure controls

Protective equipment




Process conditions

All chemical Personal Protective Equipment (PPE) should be selected based on an assessment of both the chemical hazard present and the risk of exposure to those hazards. The PPE recommendations below are based on an assessment of the chemical hazards associated with this product. Where this product is used in a mixture with other products or fluids, additional hazards may be created and as such further assessment of risk may be required. The risk of exposure and need of respiratory protection will vary from workplace to workplace and should be assessed by the user in each situation.

Engineering measures

Provide adequate general and local exhaust ventilation.

Respiratory equipment

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No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists. Wear mask supplied with: Dust filter P2 (for fine dust).

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Butyl rubber. Polyvinyl chloride (PVC).

Eye protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

9. Physical and chemical properties

Physical state: Solid	Relative vapor density at 20 °C: No data available
Appearance: Powder.	Relative density: No data available
Color: white	Molecular mass: 372.23 g/mol
Odor: Odorless	Solubility: Soluble in water.
Odor threshold: No data available	Water: 11 g/100ml
pH: 4 – 6 5% solution at 25°C	Log Pow: No data available
Melting point: 252 °C	Auto-ignition temperature: No data available
Freezing point: No data available	Decomposition temperature: No data available
Boiling point: No data available	Viscosity, kinematic: No data available
Flash point: No data available	Viscosity, dynamic: No data available
Relative evaporation rate (butyl acetate=1): No data available	Explosion limits: No data available
Flammability (solid, gas): Nonflammable.	Explosive properties: Not applicable.
Vapor pressure: No data available	Oxidizing properties: None.

10. Stability and reactivity

10.1. Reactivity

Strong oxidizing agents.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not known.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials


Materials To Avoid

Strong oxidizing agents.

10.6. Hazardous decomposition products

Nitrogen oxides. Carbon monoxide. Carbon dioxide.

11. Toxicological information

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11.1. Information on toxicological effects

Acute toxicity (oral): Harmful if swallowed.
 Acute toxicity (dermal): Not classified
 Acute toxicity (inhalation): Not classified
 LD50 oral rat: 2000 mg/kg
 ATE US (oral): 2000 mg/kg body weight
 Skin corrosion/irritation: Causes skin irritation.
 pH: 4 – 6 5% solution at 25°C
 Serious eye damage/irritation: Causes serious eye irritation.
 pH: 4 – 6 5% solution at 25°C
 Respiratory or skin sensitization: Not classified
 Germ cell mutagenicity: Not classified
 Carcinogenicity: Not classified
 Reproductive toxicity: Not classified
 STOT-single exposure: May cause respiratory irritation.
 STOT-repeated exposure: Not classified

Aspiration hazard: Not classified
 Viscosity, kinematic: No data available
 Likely routes of exposure: Inhalation. Skin and eye contact.
 Potential Adverse human health effects and symptoms: Based on available data, the classification criteria are not met. Harmful if swallowed.
 Symptoms/effects after inhalation: May cause respiratory irritation.
 Symptoms/effects after skin contact: Causes skin irritation.
 Symptoms/effects after eye contact: Causes serious eye irritation.
 Symptoms/effects after ingestion: Swallowing a small quantity of this material will result in serious health hazard

12. Ecological information

12.1. Toxicity

LC50 fish \geq 500 mg/l

12.2. Persistence and degradability

Degradability: There are no data on the degradability of this product.

12.3. Bio accumulative potential

Bio accumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil

Mobility: The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects


Avoid release to the environment.

13. Disposal considerations

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials: Avoid release to the environment.

14. Transport information

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General The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

15. Regulatory Information

The following laws, regulations, rules and standards have made corresponding provisions on the management of the chemical:

Workplace Safety Chemicals Regulations

Convention on the Safe Use of Chemicals in the Workplace

16. Other Information


Writing and revising information

Date originally compiled: April 12, 2016

Date of last revision: June 08, 2020

Re-compiled according to the latest enterprise standard Q/24SJK01-2017, the version has been upgraded from 1.0 to 2.0, and the product information has been updated.

IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set

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forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by our company hereunder are given gratis and we assume no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

END OF DATA SHEET