

Material Safety Data Sheet (MSDS)

Product Name: EDTA Di Sodium Salt

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Product Name:** EDTA Disodium Salt
- **Synonyms:** Disodium ethylenediaminetetraacetate, Na₂EDTA
- **Intended Use:** Laboratory chemicals, industrial applications, pharmaceutical intermediates.

2. Hazards Identification

- **Classification (GHS):**
 - Eye Irritation (Category 2A)
 - Skin Irritation (Category 2)
- **Signal Word:** Warning
- **Hazard Statements:**
 - H315: Causes skin irritation.

- H319: Causes serious eye irritation.
 - **Precautionary Statements:**
 - P264: Wash hands thoroughly after handling.
 - P280: Wear protective gloves/eye protection.
 - P302+P352: If on skin, wash with soap and water.
 - P305+P351+P338: If in eyes, rinse cautiously with water for several minutes.
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3. Composition/Information on Ingredients

- **Chemical Name:** EDTA Disodium Salt
 - **CAS Number:** 6381-92-6
 - **Molecular Formula:** C₁₀H₁₄N₂Na₂O₈·2H₂O
 - **Molecular Weight:** 372.24 g/mol
 - **Purity:** > 99%
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4. First Aid Measures

- **Eye Contact:** Rinse cautiously with water for several minutes. Seek medical advice if irritation persists.
 - **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing.
 - **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen and seek medical help.
 - **Ingestion:** Rinse mouth. Do not induce vomiting without medical advice. Seek immediate medical attention.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, or foam.
- **Special Hazards:** Emits toxic fumes of nitrogen oxides and carbon oxides under fire conditions.
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and full protective clothing.

6. Accidental Release Measures

- Avoid dust formation.
- Ensure adequate ventilation.
- Sweep up and place in suitable container for disposal.
- Wash spill area with plenty of water.

7. Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Prevent dust formation.
- **Storage:** Store in tightly closed containers, in a cool, dry, and well-ventilated area. Protect from moisture.

8. Exposure Controls/Personal Protection

- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protection:**
 - Respiratory Protection: Dust mask if dust is generated.
 - Eye Protection: Safety goggles.
 - Skin Protection: Protective gloves and clothing.

9. Physical and Chemical Properties

- Appearance: White crystalline powder
- Odor: Odorless
- Solubility: Soluble in water
- pH: ~4.5 – 5.5 (1% aqueous solution)
- Melting Point: > 250°C (decomposes)
- Density: ~0.85 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions.
 - **Conditions to Avoid:** Excess heat, moisture.
 - **Incompatible Materials:** Strong oxidizing agents, strong acids.
 - **Hazardous Decomposition Products:** Nitrogen oxides, carbon oxides, sodium oxides.
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11. Toxicological Information

- **Acute Toxicity:** LD50 (oral, rat) > 2000 mg/kg
 - **Irritation:** Causes skin and eye irritation.
 - **Chronic Effects:** Prolonged exposure may affect kidneys.
 - **Carcinogenicity:** Not classified as carcinogenic.
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12. Ecological Information

- **Ecotoxicity:** Harmful to aquatic organisms at high concentrations.
 - **Persistence and Degradability:** Biodegradable slowly.
 - **Bioaccumulative Potential:** Low.
 - **Mobility in Soil:** Soluble, may leach into groundwater.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
 - Do not discharge into drains or watercourses.
 - Contaminated packaging should be disposed of as chemical waste.
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14. Transport Information (Detailed)

- **UN Number:** Not regulated by UN transport classification.
- **UN Proper Shipping Name:** Not classified as a dangerous good.
- **Transport Hazard Class(es):** Not applicable.
- **Packing Group:** Not applicable.

- **Environmental Hazards:** Not considered environmentally hazardous for transport purposes.
- **Special Precautions for User:**
 - Avoid generating dust during handling.
 - Ensure containers are tightly closed and secured to prevent leakage.
 - Transport in clean, dry conditions and avoid contact with incompatible substances.
- **Transport in Bulk (Annex II of MARPOL 73/78 and IBC Code):** Not applicable.
- **Regulatory References:**
 - ADR/RID: Not regulated
 - IMDG: Not regulated
 - IATA: Not regulated

Conclusion: EDTA Disodium Salt is not classified as hazardous under international transport regulations (ADR, IMDG, IATA). Safe for transport when packaged and handled correctly.

15. Regulatory Information

- Complies with EU REACH regulations.
- Not classified as hazardous under OSHA Hazard Communication Standard.
- No specific restrictions under international chemical inventories (TSCA, EINECS).

16. Other Information

- **Abbreviations:** GHS (Globally Harmonized System), ADR (European Agreement concerning the International Carriage of Dangerous Goods by Road), IMDG (International Maritime Dangerous Goods Code), IATA (International Air Transport Association).
- The information provided is based on current knowledge and is intended to describe the product for health, safety, and environmental purposes. It should not be construed as guaranteeing specific properties.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.