

# Otto Chemie Pvt Ltd

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## MATERIAL SAFETY DATA SHEET

### 1. Product Identification

**Ethylenediaminetetraacetic acid tetra sodium salt, 98%**

**Code E 1515**

**CAS No.:** 64-02-8 (Anhydrous); 10378-23-1 (Dihydrate)

**Molecular Weight:** 416.20

**Chemical Formula:** C<sub>10</sub>H<sub>12</sub>N<sub>2</sub>O<sub>8</sub>.4Na.2H<sub>2</sub>O

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### 2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Ethylenediaminetetraacetic Acid, Tetrasodium Salt	64-02-8	100%	Yes

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### 3. Hazards Identification

**Inhalation:** Mild irritant. Symptoms may include coughing or sneezing. May cause irritation to the respiratory tract.

**Ingestion:** Substance has low toxicity by ingestion. Large amounts may cause gastric upset due to osmotic imbalance through the sequestering of metal ions.

**Skin Contact:** Mild irritant. Symptoms may include reddening or inflammation on prolonged contact.

**Eye Contact:** Causes irritation. Solutions are severe irritants to the eye and cause pain, redness, blurred vision.

**Chronic Exposure:** No information found.

**Aggravation of Pre-existing Conditions:** No information found.

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### 4. First Aid Measures

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion:** Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**Skin Contact:** Remove any contaminated clothing. Wash skin with soap or mild detergent and water for at least 15 minutes. Get medical attention if irritation develops or persists. Wash clothing before re-use.

**Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

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### 5. Fire Fighting Measures

**Fire:** Not expected to be a fire hazard.

**Explosion:** No information found.

**Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire.

**Special Information:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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### 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills:

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## 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

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## 8. Exposure Controls/Personal Protection

**Airborne Exposure Limits:** None established.

**Ventilation System:** A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):** For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

**Skin Protection:** Wear protective gloves and clean body-covering clothing.

**Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. Physical and Chemical Properties

**Appearance:** White powder.

**Odor:** Odorless.

**Solubility:** Soluble in water.

**Density:** 0.71 gm/cm<sup>3</sup>

**pH:** 1% soln. = 11.3

**% Volatiles by volume @ 21C (70F):** 0

**Boiling Point:** No information found.

**Melting Point:** No information found.

**Vapor Density (Air=1):** No information found.

**Vapor Pressure (mm Hg):** No information found.

**Evaporation Rate (BuAc=1):** No information found.

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## 10. Stability and Reactivity

**Stability:** Stable under ordinary conditions of use and storage.

**Hazardous Decomposition Products:** Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides.

**Hazardous Polymerization:** Will not occur.

**Incompatibilities:** Oxidizing agents, strong bases, copper, copper alloys and nickel

**Conditions to Avoid:** No information found.

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## 11. Toxicological Information

Irritation Data, rabbit (Std Draize): skin= 500 mg/24H, moderate; eye= 100 mg/24H, moderate.

-----\Cancer Lists\-----

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
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Ethylenediaminetetraacetic Acid, Tetrasodium Salt (64-02-8)	No	No	None
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## 12. Ecological Information

**Environmental Fate:** No information found.

**Environmental Toxicity:** Freshwater Fish Data:

96 Hr LC50 bluegill sunfish: 490 mg/L (Static)

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### 13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

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### 14. Transport Information

Not regulated.

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### 15. Regulatory Information

Tetrasodium Salt (64-02-8)

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### 16. Other Information

**We provide the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. WE . MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, WE WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.**