

Material Safety Data Sheet

Section 1: Chemical Product

Product Name: EDTA, Edetic Acid

CAS#: 60-00-4

CI#: Not available.

Synonym

Section 2: Composition and Information on Ingredients

Composition: Ethylenediamine Tetraacetic Acid or EDTA or Edetic Acid

CAS No.: 60-00-4

Percent: 100

Section 3: Hazards Identification

Emergency Overview

CAUTION! EDTA - Edetic Acid MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION TO SKIN, EYES, AND RESPIRATORY TRACT

Potential Health Effects

Inhalation: EDTA - Edetic Acid is Mild irritant.

Ingestion: EDTA has low toxicity by ingestion.

Skin Contact: Can cause redness and pain.

Eye Contact: Can cause redness and pain.

Section 4: First Aid Measures

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get Medical advice.

Ingestion: Give several glasses of water to drink to dilute the effect and get medical advice.

Skin Contact: Remove any contaminated clothing and shoes. Wash soap or mild detergent and water for at least 15 minutes. Get medical attention.

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

Section 5: Fire and Explosion Data

Fire: EDTA or Edetic Acid not considered to be a fire hazard.

Explosion: EDTA is not considered to be an explosion hazard.

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 face piece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Ventilate area of leak or spill of EDTA. Wear appropriate personal protective equipment. Pick up spills and place in a suitable container for reclamation or disposal. Follow all legal methods of reporting.

Section 7: Handling and Storage

Keep EDTA or Edetic Acid in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Containers of EDTA or Edetic Acid may be hazardous when empty since they retain product residues (dust, solids).

Section 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, glycerin, 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.

Section 9: Physical and Chemical Properties

Appearance: EDTA is white crystals.

Odor: Odorless.

Solubility: 0.05 g/100 ml @ 20C (68F)

Density: ca. 0.9

pH: No information found.

Boiling Point: Not applicable.

Melting Point: 240C (464F)

Section 10: Stability and Reactivity Data

Stability: EDTA is 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.

Conditions to Avoid: Incompatibles.

Section 11: Toxicological Information

Intraperitoneal Rat LD50: 397

mg/kg Oral Mouse LD 50: 30

mg/kg

Intraperitoneal LD 50: 250 mg/kg

Section 12: Ecological Information

Harmful to aquatic organisms. May cause long term effects in the aquatic environment.

Section 13: Disposal Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

Section 14: Transport Information

U.S.A.DOT: Not regulated.

Section 15: Other Regulatory Information

Federal and State Regulations:

Risk/safety phrases: None for this product.

Use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Hazard Rating: 0-4 (4=Extreme)

Health: 2 **Flammability:** 0 **Reactivity:** 0

Other Special Considerations: Not available.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.