



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **EDTA, free acid**
PRODUCT NUMBER: 12474
CAS NUMBER: 60-00-4
SYNONYMS: Edetic Acid; Versene; EDTA; Ethylenediamine Tetraacetic acid.
MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H303	May be harmful if swallowed.
H319	Causes serious eye irritation.
H402	Harmful to aquatic life.

Precautionary Phrases

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/face protection/eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313	If eye irritation persists; Get medical advice/attention.
P501	Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:

Health: 1 Fire: 0 Reactivity Hazard: 0 Personal: E

NFPA RATING:

Health: 1 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: Causes eye irritation.

SKIN CONTACT: May be harmful if absorbed through the skin. Causes skin irritation.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

INHALATION: May be harmful if inhaled. Causes respiratory tract irritation.

INGESTION: May be harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $(\text{HO}_2\text{CCH}_2)_2\text{NCH}_2\text{CH}_2\text{N}(\text{CH}_2\text{CO}_2\text{H})_2$

Molecular Weight: 292.24

CHEMICAL NAME	CAS#	%
Ethylenediamine Tetraacetic Acid	60-00-4	100

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: In case of eye contact, rinse with plenty of water and seek medical attention if necessary.

SKIN EXPOSURE: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.

INHALATION: Remove to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary.

INGESTION: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention if necessary.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not explosive

EXTINGUISHING MEDIUM: Use appropriate media for adjacent fire. Cool containers with water.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Carbon oxides and nitrogen oxides.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Evacuate and ventilate the area. Sweep up and then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste or cleanup materials in accordance with local regulations. Containers, even when empty, will retain residue and vapors.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Ensure adequate ventilation. Wash thoroughly after using. Keep container closed when not in use.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry well ventilated area. Isolate from oxidizing materials. Keep away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS: Contains no substances with occupational exposure limit values

EYE PROTECTION: Wear chemical safety glasses or goggles.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White crystal
ODOR: None
MOLECULAR WEIGHT: 292.24
BOILING POINT: No data available
MELTING POINT: 250°C
SPECIFIC GRAVITY: Not available
VAPOR DENSITY: No data available
SOLUBILITY: No data available

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: Excess heat
INCOMPATIBILITY: Strong oxidizing agents.
DECOMPOSITION PRODUCTS: Carbon oxides and nitrogen oxides.

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: Eyes – rabbit – Eye irritation. LD50 Oral - rat - 2,580 mg/kg.
CARCINOGENIC EFFECTS: No components of this product present at levels greater than or equal to 0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
RTECS: AH4025000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

SECTION 12 ECOLOGICAL DATA

AQUATIC VERTEBRATE: mortality NOEC - Lepomis macrochirus - 24 mg/l - 96.0 hours. LC50 - Lepomis macrochirus (Bluegill) – 34 - 62 mg/l - 96.0 hours
AQUATIC INVERTEBRATE: Not available
TERRESTRIAL: Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal regulations.

SECTION 14 TRANSPORTATION DATA

Not a dangerous good.

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in the TSCA inventory
DSCL (EEC): Listed on the DSCL inventory
SARA 302/304: Not Listed
SARA 311/312: Ethylenediamine Teraacetic Acid
SARA (TITLE 313): Not Listed
CALIFORNIA PROP. 65: Not Listed

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

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