

# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Ethylenediaminetetraacetic acid, reagent (acs) \* EDTA  
**Product code** CI-1605  
**SDS #** 44  
**Recommended use** Laboratory activities  
**Recommended restrictions** None known.  
**Manufacturer/Importer/Supplier/Distributor information**

**Company name** Crossings Inc  
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Lincoln, NE 68522  
**Telephone** 402-435-7942  
**Website:** [www.crossingsinc.com](http://www.crossingsinc.com)  
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**Emergency phone number:**  
**ChemTel: 800-255-3924**

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Serious eye damage/eye irritation Category 2  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment, long-term hazard Category 3  
**OSHA defined hazards** Not classified

### Label elements



### Signal word

**Warning**

### Hazard statement

Causes serious eye irritation. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

Avoid release to the environment Wash thoroughly after handling. Wear protective gloves/eye/face protection.

#### Response

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

#### Storage

Store away from incompatible materials. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

#### Disposal

Dispose of contents/container in accordance with all applicable laws and regulations.

### Supplemental information

None.

## 3. Composition/information on ingredients

### Substances

Chemical name	Common name and synonyms	CAS number	%
ETHYLENEDIAMINETETRAACETIC ACID	EDTA ETHYLENEDINITRILOTETRAACETIC ACID	60-00-4	100

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## 4. First-aid measures

**GENERAL ADVICE:** Consult a physician. Show this safety data sheet to the doctor in attendance.

### Inhalation

Move to fresh air. Oxygen or artificial respiration if needed. Call a physician.

### Skin contact

Rinse skin with water/shower. Get medical attention if irritation develops and persists.

### Eye contact

Flush eyes with plenty of water for at least 15 minutes. Get medical attention.

### Ingestion

Rinse mouth. Do not induce vomiting without advice from poison control center. Never give

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anything by mouth to a victim who is unconscious or is having convulsions.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising</b>	During fire, gases hazardous to health may be formed.
<b>Protective equipment</b>	
<b>Fire fighting equipment/instructions</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	This product is miscible in water. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Clean up in accordance with all applicable regulations. Following product recovery, flush area with water.
<b>Environmental precautions</b>	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground

## 7. Handling and storage

<b>Precautions for safe handling</b>	Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
<b>Storage</b>	Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Engineering controls</b>	Good general ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.
<b>Eye/face protection</b>	Use tight fitting goggles if dust is generated.
<b>Skin / Hand protection</b>	Wear appropriate chemical resistant gloves. Wear suitable protective clothing.
<b>Respiratory protection</b>	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>General hygiene</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

<b>Appearance</b>	
<b>Physical state</b>	Solid, Powder.
<b>Color</b>	White.
<b>Odor</b>	Odorless.
<b>Odor threshold</b>	Not available.
<b>pH</b>	2.5 approximate for saturated solution
<b>Melting point/freezing point</b>	428 °F (220 °C) (decomposes without melting)
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	<del>Not available.</del> Not available.

<b>Flammability (solid, gas)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available..
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	0.2 g/l approximately
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	428 °F (220 °C)
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Molecular formula</b>	C <sub>10</sub> -H <sub>16</sub> -N <sub>2</sub> -O <sub>8</sub>
<b>Molecular weight</b>	292.28 g/mol

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	May include oxides of carbon. May include oxides of nitrogen.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of dusts may cause respiratory irritation.
<b>Skin contact</b>	No adverse effects due to skin contact are expected.
<b>Eye contact</b>	Causes serious eye irritation. Dust in the eyes will cause irritation
<b>Ingestion</b>	Expected to be a low ingestion hazard.

### Information on toxicological effects

#### Acute toxicity

Product	Species	Test Results
ETHYLENEDIAMINETETRAACETIC ACID (CAS 60-00-4)		
Oral LD50	Rat	2850 mg/kg

<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Causes serious eye irritation.
<b>Respiratory sensitization</b>	Not available.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Reproductive toxicity</b>	This product is not expected to cause reproductive or developmental effects
<b>Specific target organ toxicity - single exposure</b>	Not classified.
<b>Specific target organ toxicity - repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not available.

## 12. Ecological information

**Eco toxicity** May be harmful to aquatic life. Avoid release to the environment.

### Aquatic

LC50 - Lepomis macrochirus (Bluegill sunfish) 34 - 62 mg/l 96 hours

<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.

### **13. Disposal considerations**

**Disposal Instructions** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

### **14. Transport information**

**DOT - Not regulated as dangerous goods.**

**IATA - Not regulated as dangerous goods.**

**IMDG - Not regulated as dangerous goods.**

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.

### **15. Regulatory information**

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

ETHYLENEDIAMINETETRAACETIC ACID (CAS 60-00-4) **Listed.**

**SARA 304 Emergency release notification - Not regulated.**

**Superfund Amendments and Reauthorization Act of 1986**

**(SARA) Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance - Not listed.**

**SARA 311/312 Hazardous chemical: Yes**

**SARA 313 (TRI reporting): Not regulated.**

**Other federal regulations**

**Clean Water Act (CWA) Section 112(r) (40 CFR 68.130): Hazardous substance**

**Safe Drinking Water Act (SDWA): Not regulated**

**US state regulations**

**US. California Controlled Substances (California Health and Safety Code Section 11100): Not Listed**

**US. Massachusetts RTK - ETHYLENEDIAMINETETRAACETIC ACID (CAS 60-00-4)**

**US. New Jersey RTK - ETHYLENEDIAMINETETRAACETIC ACID (CAS 60-00-4)**

**US. Pennsylvania RTK -ETHYLENEDIAMINETETRAACETIC ACID (CAS 60-00-4)**

**US. Rhode Island RTK - ETHYLENEDIAMINETETRAACETIC ACID (CAS 60-00-4)**

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

### **16. Other information**

**HMIS® ratings** Health: 2 Flammability: 0 Physical hazard: 0

**NFPA ratings** Health: 2 Flammability: 0 Instability: 0

The information provided in the SDS is believed to be correct to the best of our knowledge and is attended only as guidance for the safe use, storage and disposal of the product. Crossings Inc cannot assure the accuracy of the information provided and shall not be responsible or liable for any damage or losses resulting from use.

Date: October 20, 2015