

## MATERIAL SAFETY DATA SHEET

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## 1. PRODUCT IDENTIFICATION

CATALOG NO.: R-0012  
 PRODUCT NAME: Hardness Reagent  
 CHEMICAL FAMILY: Organic chelant solution

## 2. INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Ethylenediaminetetra- acetic acid	60-00-4	<5	Irritant
Nonhazardous ingredients	NA	<1	None
Deionized water	7732-18-5	to 100	None

## 3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid      APPEARANCE: Clear, colorless      ODOR: None  
 BOILING PT (F): 212      pH: 8.1      SPECIFIC GRAVITY: 1  
 VAPOR PRESSURE (mm Hg): 17      VAPOR DENSITY (AIR=1): .6  
 PERCENT VOLATILE BY VOLUME: 99      SOLUBILITY IN WATER: Soluble

## 4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA      METHOD: NA  
 FLAMMABLE LIMITS: LEL: NA      UEL: NA  
 EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam  
 SPECIAL PROCEDURES: Wear self-contained (positive pressure if available)  
 breathing apparatus and full-protective clothing  
 FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: May emit  
 toxic fumes of nitrogen oxides, sodium oxide.  
 NFPA CODE: Health: 0      Flammability: 0      Reactivity: 0      Specific: NA  
 CONDITIONS TO AVOID: Extreme heat, temperatures.

## 5. HEALTH HAZARD DATA

INGREDIENT: Ethylenediaminetetraacetic acid  
 TOXICITY: LD50(oral-rat): 2000 mg/kg  
 PEL: NE      TLV: NE  
 STEL: NE

ROUTE(S) OF ENTRY: Inhalation      Ingestion X      Skin X

TARGET ORGAN(S): Eyes, skin

CARCINOGENICITY: NTP No      IARC No      OSHA No

HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:

EYES: Contact may cause irritation.

SKIN: Contact may cause irritation.

INGESTION: Large quantities may cause gastrointestinal irritation.

INHALATION: NA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye and skin conditions

**6. PRECAUTIONARY MEASURES**

**PROTECTIVE EQUIPMENT:** General purpose gloves, safety glasses, lab coat  
**HANDLING:** Avoid contact with eyes, skin, and clothing. Avoid breathing chemical. Wash thoroughly after handling.  
**STORAGE:** Cool, dry area. Avoid direct sunlight.

**7. EMERGENCY AND FIRST AID PROCEDURES**

**EYE AND SKIN CONTACT:** Immediately flush eyes with water for 20 minutes or until chemical is removed. Call physician. Wash skin thoroughly with soap and water.  
**INGESTION:** Give large amounts of water. Call physician. Treat symptoms as needed. DO NOT give anything by mouth to a person who is unconscious, rapidly losing consciousness, or convulsing.  
**INHALATION:** NA

**8. SPILL AND DISPOSAL PROCEDURES**

**SPILL OR RELEASE:** Absorb with vermiculite or other inert material. Containerize for later disposal.  
**DISPOSAL:** Incineration or other method to comply with all local, state, and federal regulations.

NA = Not applicable  
ND = Not determined  
NE = Not established

This Material Safety Data Sheet has been prepared in accordance with 29 CFR Part 1910.1200 and contains information believed to be accurate and complete at the date of preparation. However, no warranty is expressed or implied. Advice given under "Spill and Disposal Procedures" assumes compliance with federal, state, and local regulations regarding the disposal of hazardous waste.

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