



## Material Safety Data Sheet

### EDTA, 50% w/v (with NaOH)

#### Section 1 - Chemical Product and Company Identification

**MSDS Name:**

EDTA, 50% w/v(withNaOH)

**Catalog Numbers:**

LC13950

**Synonyms:****Company Identification:**

LabChem, Inc.  
200 William Pitt Way  
Pittsburgh, PA 15238

**Company Phone Number:**

(412) 826-5230

**Emergency Phone Number:**

(800) 424-9300

**CHEMTREC Phone Number:**

(800) 424-9300

#### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
6381-92-6	Disodium dihydrogen ethylenediaminetetraacetate.2H2O	50
1310-73-2	Sodium hydroxide	10

#### Section 3 - Hazards Identification

##### EMERGENCY OVERVIEW

*Appearance: Colorless*

*Caution! Corrosive. May cause eye and skin irritation. May cause severe digestive tract irritation.*

*Target Organs: None known.*

##### Potential Health Effects

**Eye:**

Eye contact may result in varied degrees of damage to conjunctiva and cornea leading to edema, ulceration, vision impairment (opacification).

**Skin:**

May cause moderate skin irritation.



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**Ingestion:**

May cause corrosion and permanent tissue destruction of the esophagus and digestive tract. Latent carcinoma is thought to result from tissue destruction and scar tissue formation. May cause temporary loss of hair.

**Inhalation:**

Effects vary from mild irritation to severe pneumonitis, sore throat, dyspnea, burns.

**Chronic:**

May cause dermatitis and conjunctivitis. Prolonged inhalation may cause bronchial irritation, coughing, and bronchial pneumonia.

## Section 4 - First Aid Measures

**Eyes:**

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once. Cover burns with loose sterile non-medicated bandages.

**Skin:**

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Remove contaminated clothing and shoes. Cover burns with a dry sterile bandage (secure, not tight).

**Ingestion:**

Medical personnel may do esophagoscopy, irrigate injured area with 1% acetic acid to neutralize alkali. If victim is conscious, give 2-4 glasses of water to dilute alkali. Do not use gastric lavage or induce vomiting.

**Inhalation:**

Give artificial respiration if necessary. Get medical aid. Keep victim warm, at rest. Move victim to fresh air.

**Notes to Physician:**

Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:**

Negligible fire and explosion hazard when exposed to heat or flame. Avoid breathing corrosive vapors. Move container if possible, avoid breathing vapors or dust.

**Extinguishing Media:**

For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

**Autoignition Temperature:**

No information found.

**Flash Point:**

No information found.

**NFPA Rating:**

CAS# 7732-18-5: Not published.

CAS# 6381-92-6: Not published.

CAS# 1310-73-2: Not published.

**Explosion Limits:**

Lower:      Upper:



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**Section 6 - Accidental Release Measures**

**General Information:**

Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:**

Contain if possible, absorb with sand or inert absorbent, scoop into labeled disposal container. Material may be neutralized to pH 7 with citric acid or other suitable neutralizing agent.

**Section 7 - Handling and Storage**

**Handling:**

Wash thoroughly after handling. Avoid breathing dust, vapor, mist, or gas.

**Storage:**

Store away from incompatible substances especially where flammable or poisonous gases may accumulate in storage.

**Section 8 - Exposure Controls, Personal Protection**

**Engineering Controls:**

Provide local exhaust or general dilution ventilation.

**Exposure Limits**

<b>Chemical Name:</b>	<b>ACGIH</b>	<b>NIOSH</b>	<b>OSHA</b>
<b>Water</b>	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
<b>Disodium dihydrogen ethylenediaminetetraacetate dihydrate</b>	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
<b>Sodium hydroxide</b>	None of the components are on this list.	None of the components are on this list.	2 mg/m3 TWA;

**OSHA Vacated PELs**

**Personal Protective Equipment**

**Eyes:**

Do not wear contact lenses when working with chemicals. An eye wash fountain should be available in the immediate work area. Wear splash-proof safety goggles.

**Skin:**

Wear alkali resistant gloves.

**Clothing:**

Wear alkali resistant protective clothing.

**Respirators:**

Not required for normal use. 100 mg/m3: HiEPF/SAF/SCBAF.

200 mg/m3: PAHiEF/SAF: PD, PP, CF.

Escape: DMXSF/SCBAF. Firefighting-- any self-contained breathing apparatus with full facepiece operated in pressure-demand mode.



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#### Section 9 - Physical and Chemical Properties

**Physical State:** Clear liquid  
**Color:** Colorless  
**Odor:** Odorless  
**pH:** Alkaline  
**Vapor Pressure:** No information found.  
**Vapor Density:** No information found.  
**Evaporation Rate:** No information found.  
**Viscosity:** No information found.  
**Boiling Point:** No information found.  
**Freezing/Melting Point:** No information found.  
**Decomposition Temperature:** No information found.  
**Solubility in water:** Soluble.  
**Specific Gravity/Density:** > 1.0  
**Molecular Formula:** No information found.  
**Molecular Weight:** No information found.

#### Section 10 - Stability and Reactivity

##### Chemical Stability:

Stable under normal temperatures and pressures. Material is a strong base, reacts exothermically with water - corrosive fumes of sodium hydroxide may be released.

##### Conditions to Avoid:

Incompatible materials.

##### Incompatibilities with Other Materials

Acetaldehyde, acrolein, acrylonitrile, allyl alcohol, aluminum, chlorine trifluoride, chloronitrotoluenes, halogenated organics (e.g. dibromoethane, hexachlorobenzene, methyl chloride, trichloroethylene), maleic anhydride, metals, nitromethane, nitroparaffins, nitropropanes, phenols, pentol, phosphorus pentoxide, tetrachlorobenzene/methyl alcohol, tetrahydrofuran, trichloroethylene.

##### Hazardous Decomposition Products

Sodium oxide.

##### Hazardous Polymerization

Has not been reported

#### Section 11 - Toxicological Information

##### RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 6381-92-6: AH4410000.

CAS# 1310-73-2: WB4900000.



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#### LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 6381-92-6:

No information found. CAS# 1310-73-2:

No information found.

#### Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 6381-92-6: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 1310-73-2: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

#### Epidemiology:

Sodium hydroxide solutions are corrosive to eye, skin, mucous membranes.

#### Teratogenicity:

#### Reproductive:

#### Mutagenicity:

#### Neurotoxicity:

## Section 12 - Ecological Information

No information found.

## Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

## Section 14 - Transport Information

### US DOT

**Shipping Name:** Not regulated.

**Hazard Class:**

**UN Number:**

**Packing Group:**

## Section 15 - Regulatory Information

### US Federal

#### TSCA

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 6381-92-6 is not on the TSCA Inventory, however, its anhydrous form is on the inventory and so this hydrate is exempt from TSCA Inventory requirements (40CFR270.3(u)(2)).

CAS# 1310-73-2 is listed on the TSCA Inventory.

#### SARA Reportable Quantities (RQ)

CAS# 1310-73-2: final RQ = 1000 pounds (454 kg)



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### CERCLA/SARA Section 313

None of the components are on this list.

### OSHA - Highly Hazardous

None of the components are on this list.

## US State

### State Right to Know

Sodium hydroxide can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

### California Regulations

## European/International Regulations

### Canadian DSL/NDSL

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 1310-73-2 is listed on Canada's DSL List.

### Canada Ingredient Disclosure List

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 6381-92-6 is not listed on Canada's Ingredient Disclosure List.

CAS# 1310-73-2 is listed on Canada's Ingredient Disclosure List.

## Section 16 - Other Information

MSDS Creation Date: November 26, 1998

Revision Date: October 31, 2007

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