

# SAFETY DATA SHEET

## EDTA, Disodium Dihydrate

(Ethylenediamine Tetraacetic acid, disodium dihydrate)

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
5480 Mainway  
Burlington, Ontario L7L 6A4  
1-800-234-1179  
Emergency Telephone No.: 1-905-466-3832  
Chemical Name: Ethylenediamine Tetraacetic acid, disodium dihydrate  
Catalog Number: EDT001/EDT002/EDT003

### SECTION 2: HAZARDS IDENTIFICATION

#### GHS Classification:

Acute Toxicity, Oral (category 5)  
Acute Toxicity< Inhalation (category 4)  
Specific target organ toxicity—repeated exposure, Inhalation (category 2)

#### Pictogram:



Signal Word: **Warning**

#### Hazard Statements:

H303 May be harmful if swallowed  
H332 Harmful if inhaled  
H373 may cause damage to organs (respiratory tract) through prolonged or repeated exposure if inhaled.

#### Precautionary Statements:

P260 Do not breathe dust/ fume/ gas / mist/ vapours/ spray  
P271 Use only outdoors or on a well-ventilated area.  
P304+P340+P312 IF INHALED: remove to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P501 Dispose of contents/ container to an approved waste disposal plant.

#### Potential Health Effects

**Inhalation.** Toxic if inhaled. May cause respiratory tract irritation.

**Eyes:** May cause eye irritation

**Skin:** May cause skin irritation.

**Ingestion:** May be harmful if swallowed

### SECTION 3 COMPOSITION/ INGREDIENTS

	CAS #	%
EDTA, DISODIUM : DIHYDRATE	6381-92-6	100%

Molecular Formula: C10H14N2Na2O8 .2H2O  
Molecular Weight: 372.23

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water for at least 15 minutes. If symptoms persist get medical attention.

**Skin:** Flush area immediately with plenty of soap and water while removing contaminated clothing and shoes. If symptoms persist get medical attention.

**Inhalation:** Remove victim to fresh air. If not breathing give artificial respiration. If breathing is difficult give oxygen . If symptoms persist get medical attention.

**Ingestion:** Wash mouth with water. Do not induce vomiting . If symptoms persist get medical attention.

### SECTION 5 FIRE FIGHTING MEASURES

**General Information:** Always wear full protective gear in the event of a fire. Toxic gas and vapors may be generated by decomposition or combustion. Excessive dust in combination with air can create an explosive mixture.

**Flammable:** No

**Flash Point:** N/A

**Autoignition Temperature:** N/A

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

Ventilate the area. Wear appropriate protective equipment. Sweep and place in a closed container. In the event of a fire always wear self-contained breathing apparatus, NIOSH/MSHA approved or equivalent.

**Leak and Spill Procedures:** Ventilate the area. Wear appropriate protective equipment. Cover with dry lime or soda. Sweep and place in a closed container. Avoid generating dust.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Avoid contact. Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Minimize dust generation.

**Storage Conditions:** Room temperature.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

# SAFETY DATA SHEET

## EDTA, Disodium Dihydrate

(Ethylenediamine Tetraacetic acid, disodium dihydrate)

Exposure limits: none listed  
Use adequate ventilation. Avoid dust generation.  
Wear appropriate protective equipment to prevent eye and skin exposure.  
Wear appropriate respirator to prevent lung irritation.  
**Personal Protection:** Lab coat, safety goggles, rubber gloves.  
**Ventilation:** Local exhaust systems. Use fume hood  
**Respiratory protection:** use OSHA/MSHA approved respirator.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** solid  
**Appearance and Odor:** white crystalline powder. No odor.  
**Melting Point:** 252° C  
**Boiling Point:** N/A  
**Specific Gravity:** N/A  
**Vapor Density:** N/A  
**Water Solubility:** yes  
**pH:** 5.3 (aq soln)

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable under normal temperatures and pressure  
**Conditions to avoid:** dust generation. Excess heat  
**Incompatibility:** Strong oxidizing agents  
**Hazardous Decomposition Products:** Nitrogen oxides, carbon monoxide, carbon dioxide,  
**Hazardous Polymerization:** Will not occur

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50: oral, rat: 2gm/kg  
LD50,oral, mouse: 2050 mg/kg

**Epidemiology:** No data available

**Teratogenicity:** No data available

**Reproductive Effects:** No data available

**Neurotoxicity:** No data available

**Mutagenicity:** No data available

**Carcinogenicity:** not listed by ACGIH, IARC, NTP, or CA

### SECTION 12 ECOLOGICAL INFORMATION

No information found.

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Burn in chemical incinerator. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

**Shipping Information:** Not regulated

### SECTION 15 REGULATORY INFORMATION

US: TSCA: listed

European/International: N/A

Canada:

D1B Toxic material causing Immediate and Serious Toxic effects -Toxic by Inhalation

D2B Toxic Material causing Other Toxic Effects - Chronic toxicity

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz (President)

Date Prepared: Oct 6/2022

Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product. Observe all federal, provincial and state laws concerning health, safety and pollution.