Bioland Scientific LLC

Material Safety Data Sheet

Version 1.0 Revision Date 12/01/2010 Print Date 12/01/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Ethylenediaminetetraacetic acid disodium salt dihydrate

Product Number CE01

Brand Bioland Scientific LLC

Company Bioland Scientific LLC

14925 Paramount Blvd., Suite C

Paramount, CA 90723

USA

Telephone 1-562-377-2668 Fax 1-562-733-6008 Emergency Phone # 1-562-377-2668

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Disodium ethylenediaminetetraacetate dihydrate

Edetate disodium salt dihydrate

Edathamil

EDTA disodium salt

Formula: C10H14N2Na2O8.2H2O Molecular Weight: 372.24 g/mol

CAS-No.	EC-No.	Index-No.	%
6381-92-6	205-358-3		99.0%

3. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards: No known OSHA hazards

HMIS Classification Health Hazard: 1 Flammability: 1 Physical hazards: 0

NFPA Rating

Health Hazard: 0

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation. **Skin:** May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

Move person into fresh air immediately. If not breathing give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water for at least 15 minutes while removing contaminated clothing.

In case of eye contact

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

Flammable properties

Not flammable or combustible.

Explosion Limits

Lower: Not available. Upper: Not available.

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment as indicated in Section 8. Avoid dust formation. Avoid breathing dust.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Vacuum or sweep up material and place into in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Storage

Keep container tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves.

Eye protection

Safety glasses

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form: Solid Color: white

Safety data

pH 4.0 - 5.5 at 10 g/l at 23 °C (73 °F)

Meltingpoint/freezing point

Melting point/range: 248 °C (478 °F)
Boiling point 248 °C (478 °F)
no data available

Flash point > 100 °C (> 212 °F) - DIN 51758

Ignition temperature > 100 °C (> 212 °F)

Autoignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Vapour pressure no data available

Density no data available 100 g/l at 20 °C (68 °F)

Water solubility ca.

Partition coefficient: no data available

n-octanol/water

Relative vapour density no data available Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures

Conditions to Avoid: no data available

Incompatibilities with Other Materials: Strong oxidizing agents

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx), Sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50: rat - > 2,000 mg/kg Inhalation LC50: no data available Dermal LD50: no data available

Other information on acute toxicity: no data available

Skin corrosion/irritation: Skin - rabbit - No skin irritation - OECD Test Guideline 404

Serious eye damage/eye irritation: Eyes - rabbit - No eye irritation - OECD Test Guideline 405

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Teratogenicity: no data available

Specific target organ toxicity - single exposure (Globally Harmonized System): no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System): no data available

Aspiration hazard: no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects: no data available

Additional Information: RTECS: AH4410000

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - > 500 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

EC50 - Daphnia - > 100 mg/l - 24 h

Toxicity to algae EC50 - Algae - 10 - 100 mg/l - 72 h

Persistence and degradability

Biodegradability Method: Directive 67/548/EEC Annex V, C.4.C.

Bioaccumulative potential: no data available

Mobility in soil: no data available

PBT and vPvB assessment: no data available

Other adverse effects: Chemical Oxygen: 590 mg/g

Demand (COD)

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Toxic to aquatic life. no data available

13. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US): Not dangerous goods **IMDG:** Not dangerous goods **IATA:** Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Edetate disodium dihydrate

CAS-No.: 6381-92-6 Revision Date

New Jersey Right To Know Components

Edetate disodium dihydrate

CAS-No.: 6381-92-6 Revision Date California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Product Use:

Laboratory Reagent.

Disclaimer:

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