# SAFETY DATA SHEET

1. Identification

Product identifier : Greenway Biotech, Inc. Chelated Zinc EDTA

Other means of identification : Synonyms DISODIUM ZINC EDTA

Recommended use : Agricultural/ Horticultural Use- Micronutrient

Fertilizer- Refer to product label.

**Recommended restrictions**: Refer to product label.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

**Company name**: Greenway Biotech, Inc.

Address : 17861 RD 24

Madera, CA 93638 United States

Telephone: Corporate Office 1-562-351-5168Website: www.greenwaybiotech.comE-mail: sales@greenwaybiotech.com

**Contact person**: EH&S / Regulatory Department

**Emergency phone number** : CHEMTREC (24 hours):

USA, Canada, Puerto Rico 1-800-424-9300

Virgin Islands 1-800-424-9300

International Maritime +1 (703) 527-3887

2. Hazard(s) identification

Physical hazards : Not classified.
Health hazards : Not classified.
Environmental hazards : Not classified.
OSHA defined hazards : Not classified.

Label elements

Hazard symbol : None.
Signal word : None.

**Hazard statement**: The substance does not meet the criteria for classification.

**Precautionary statement** 

**Prevention**: Observes good industrial hygiene practices.

**Response**: Wash hands after handling.

**Storage** : Store away from incompatible materials.

Disposal : Dispose of waste and residues in accordance with local authority

requirements.

Hazard(s) not : (HNOC)
otherwise classified : None known.
Supplemental information : None.

### 3. Composition/information on ingredients

#### **Substances**

The manufacturer lists no ingredients as hazardous according to OSHA 29 CFR 1910.1200.

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

#### 4. First-aid measures

Inhalation Skin contact

- : Move to fresh air. Call a physician if symptoms develop or persist.
- : Wash off with soap and water. Get medical attention if irritation develops and

persists.

Eye contact

: Rinse with water. Get medical attention if irritation develops and

persists.

Ingestion
Most important

: Rinse mouth. Get medical attention if symptoms occur. :Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

Delayed

Indication of immediate medical attention and special treatment needed

:Treat symptomatically.

General information

: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

: Do not use a water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

: During fire, gasses hazardous to health may be formed.

Special protective equipment and precautions for firefighters

: Self-contained breathing apparatus and full protective

clothing must be worn in case of fire.

Fire fighting equipment/instructions

: Use water spray to cool unopened containers.

Specific methods

: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

: No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

: Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for Containment and cleaning up

: Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush the area with water.

- : Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean the surface thoroughly to remove residual contamination.
- : Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

**Environmental precautions** : Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

: Observe good industrial hygiene practices. Precautions for safe handling

**Conditions for safe storage** : Store in a tightly closed container. Store away from incompatible

materials (see

including any incompatibilities Section 10 of the SDS).

## 8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

Material Type	е	Value	Form
Brandt Sequestar 14% Zn	TWA	5 mg/m3 15 mg/m3	DUST: Respirable fraction DUST: Total dust
ACGIH Material	Туре	Value	Form
Brandt Sequestar 14% Zn	TWA	3 mg/m3 10 mg/m3	DUST: Respirable particles DUST: Inhalable particles

**Biological limit values** : No biological exposure limits noted for the ingredient(s).

Appropriate engineering

controls

: Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions.

If applicable, use process enclosures, local exhaust ventilation,

or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne

levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection : If contact is likely, safety glasses with side shields are recommended.

Hand protection : Wear appropriate chemical resistant gloves. Suitable gloves can be

recommended by the glove supplier.

Other : Use of an impervious apron is recommended.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards : Wear appropriate thermal protective clothing, when necessary.

General hygiene : Observe any medical surveillance requirements. Always observe good considerations personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely ash work clothing and

protective equipment to remove contaminants.

#### 9. Physical and chemical properties

**Appearance** 

Physical state : Liquid.

: Liquid. Dry flowable granules. Form

Color : White Odor : Odorless. **Odor threshold** : Not available. : Not available pН

Melting point/freezing point : Not available. Initial boiling point and boiling : Not available.

Range

: Not available. Flash point **Evaporation rate** : Not available. Flammability (solid, gas) : Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

: Not available.

Flammability limit - upper : Not available.

(%)

Explosive limit - lower (%) : Not available. Explosive limit - upper (%) : Not available.

Vapor pressure : Not available.

Vapor density : Not available.

Relative density : Not available.

Solubility(ies)

Solubility (water) : Not available

Partition coefficient (n-octanol/water : -8.841

**Auto-ignition temperature** : > 986 °F (> 530 °C) : Not available **Decomposition temperature Viscosity** : Not available..

Other information

**Bulk density** : 650 - 900 kg/m3 **Explosive properties** : Not explosive. Molecular formula : C10H12N2O8Zn.2Na

Molecular weight : 399.57 g/mol

Oxidizing properties : Not oxidizing. Particle size : 123.66 µm D10 : 209.67 µm D50

: 333.51 µm D90

pH in aqueous solution : 6 - 8 (2% solution)

10. Stability and reactivity

Reactivity : The product is stable and non-reactive under normal conditions of use, storage

and Transport.

**Chemical stability** : Material is stable under normal conditions.

Possibility of hazardous : No dangerous reaction known under conditions of normal use.

Reactions

: Keep away from heat, hot surfaces, sparks, open flames and other ignition Conditions to avoid

sources. Contact with incompatible materials.

Incompatible materials : Strong oxidizing agents.

**Hazardous decomposition** 

products

: No hazardous decomposition products are known.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation: No adverse effects due to inhalation are expected.Skin contact: No adverse effects due to skin contact are expected.Eye contact: Direct contact with eyes may cause temporary irritation

**Ingestion** : Expected to be a low ingestion hazard.

Symptoms related to the physical ,chemical and toxicological

characteristics

: Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

: Not known.

Product Species Test Results

Brandt Sequestar 14% Zn

Acute Oral Solid

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Irritation Corrosion - Skin Result: non-irritant  $: Prolonged \ skin \ contact \ may \ cause \ temporary \ irritation.$ 

Serious eye damage/eye irritation

Irritation Corrosion - Eye Result: non-irritant

Respiratory or skin sensitization

Respiratory sensitization

Germ cell mutagenicity

**Skin sensitization**: This product is not expected to cause skin sensitization.

: No data available to indicate product or any components present

at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity : Not classifiable as to carcinogenicity to humans

IARC Monographs.
Overall Evaluation of
Carcinogenicity

: Not listed.

: Not a respiratory sensitizer.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) : Not regulated.

US. National Toxicology Program (NTP) Report on

Carcinogens

: Not listed.

Reproductive toxicity Specific target organ

toxicity - single exposure

: This product is not expected to cause reproductive or developmental effects.

: Not classified

Specific target organ toxicity - repeated

exposure

: Not classified.

**Aspiration hazard**: Not an aspiration hazard.

### 12. Ecological information

**Ecotoxicity** 

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product Species Test Results

Brandt Sequestar 14% Zn

Aquatic

Fish LC50 Channel catfish (Ictalurus punctatus) > 500 mg/l, 96 hours

Persistence and degradability Bioaccumulative potential Partition coefficient :No data is available on the degradability of this substance.

n-octanol / water (log Kow)

Mobility in soil : No data available

Other adverse effects : No other adverse environmental effects (e.g. ozone depletion,

photochemical ozone creation potential, endocrine disruption, global warming

potential) are expected from this component.

13. Disposal considerations

**Disposal instructions** : Collect and reclaim or dispose in sealed containers at licensed waste disposal

sites.

**:-**8.841

**Local disposal regulations** : Dispose in accordance with all applicable regulations.

**Hazardous waste code** : The waste code should be assigned in discussion between the user, the

producer and the waste disposal company.

Waste from residues / unused : 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 (see:Disposal instructions).

Contaminated packaging : Since emptied containers may retain product residue, follow label warnings

even after the container is emptied. 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.

15. Regulatory information

**US federal regulations** : This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) : Not regulated.

**CERCLA Hazardous** 

Substance List (40 CFR 302.4) : Not listed

SARA 304 Emergency release notification

: Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) : Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely : Not listed.

hazardous substance

: No

SARA 311/312 Hazardous

Chemical

Classified hazard

: Acute toxicity (any route of exposure)

Categories

SARA 313 (TRI reporting) : Not regulated.

#### Other federal regulations

Clean Air Act (CAA)

Section 112 Hazardous Air Pollutants (HAPs) List

: Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release

: Not regulated.

Prevention (40 CFR 68.130)

Clean Water Act (CWA)

Clean Water Act (CWA) : Priority pollutant Section 112(r) (40 CFR 68.130) : Toxic pollutant

Safe Drinking Water Act

(SDWA

: Not regulated.

**US state regulations** 

**US. California Proposition 65** 

WARNING:

: This product can expose you to chemicals including arsenic, cadmium, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (I	ECSC) Yes
Europe	European Inventory of Existing Commercial Chemical	Yes
•	Substances (EINECS)	
Europe	European List of Notified Chemical Substances (ELIN	CS) No
Japan	Inventory of Existing and New Chemical Substances (	ENCS) No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Subs (PICCS)	tances No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing

country(s).

### 16. Other information, including date of preparation or last revision

05-03-2013 Issue date 04-04-2019 **Revision date** 

Version # 03

#### **Disclaimer**

: The information provided in this Safety Data Sheet is correct to the best of Manufacturer's knowledge, information and belief at the date of its publication; however, it is provided only as a guidance for safe handling, use, processing, storage, transportation, disposal and release of the Product. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made with respect to the Product or the information provided herein, or that the Product or information herein may be used without infringing the intellectual property rights of others. The information provided in this Safety Data Sheet relates only to the specific Product designated and may not be valid if the Product is used in combination with other materials or in any other process, unless specified herein. The user assumes all risk and liability for loss, injury, damage or expense due to any use, handling, storage or disposal of the Product, and Manufacturer recommends that the user conducts its own tests of the Product to determine suitability of the Product for the user's particular use.

**Revision information** :Composition / Information on Ingredients: Ingredients

Material name: Greenway Biotech, Inc. Chelated Zinc EDTA Version #: 03 Revision date: 03/21/2024 Issue date: 05-03-2013