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SAFETY DATA SHEET

Chelated Copper 14%

Section 1. Identification

GHS product identifier : Chelated Copper 14%
Product type : Solid

Uses

Area of application : Not Applicable

Supplier

Supplier's details : Greenway Biotech, Inc.

Address

Street : 10632 Painter Ave
Postal code : 90670
City : Santa Fe Springs
Country : United States

Telephone number : +1 562-351-5168

e-mail address of person responsible for this SDS : sales@greenwaybiotech.com

Emergency telephone number (with hours of operation) : US: Chemtrec 24-hours Emergency Response: 1-800-424-9300
Canada: 24 Hour Emergency Service, (Canutec 613-996-6666)

National advisory body/Poison Center

Name : The National Poisons Emergency number
Telephone number : 1 800 222 1222

Section 2. Hazards identification

Physical hazards : Not Classified

Health hazards : Acute toxicity, oral

OSHA defined hazards : Not Classified



Label Elements :

- Signal Word** : Warning
- Hazard Statements** : Harmful if swallowed.
- Precautionary Statements** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
If swallowed: Call a poison center/doctor if you feel unwell.
Rinse mouth.
Store away from incompatible materials.
Dispose of contents/container in accordance with local/regional/National/international regulations.
- Hazard(s) not otherwise classified (HNOC)** : Not classified.

Supplemental Information: 100% of the mixture consists of component(s) of unknown acute oral toxicity.

Section 3. Composition/information on ingredients

Substance

Chemical Name	CAS-Number	% Content
EDTA, Disodium Copper (II) Salt	14025-15-1	90-100

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

Section 4. First aid measures

Inhalation: Move to fresh air. Call a physician if symptoms develop or persist.

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

Skin contact: Wash off with soap and water. Get medical attention if irritation develops and persists.

Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Most important symptoms and effects both acute and delayed: Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed: Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General Information: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advise immediately (show the label where possible)

Section 5. Fire Fighting Measures

- Suitable extinguishing media** : Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).
- Unsuitable extinguishing media** : Do not use water jet as an extinguisher, as this will spread the fire.
- Special hazards arising from the chemical** : During fire, gases hazardous to health may be formed.
- Special protective equipment and precautions for fire fighters** : Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
- Fire-fighting equipment/ Instructions** : Move containers from fire area if you can do so without risk.
- Specific methods** : Move container from fire area if it can be done without risk.

Section 6. Accidental release measures

Personal precaution, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protective equipment. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the MSDS.

Methods and material for containment and cleaning up:

Stop the flow of material, if this is without risk. Never return spills in original container for re-use. For waste disposal, see section 13 of the MSDS.

- Large spills** : Dike the spilled material, where this is possible. Cover with plastic Sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
- Small Spill:** : Wipe up with absorbent material (e.g cloth, fleece). Clean surface Thoroughly to remove residual contamination
- Spillage into water** : Where possible, remove any intact containers from the water

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

Section 7. Handling and storage

Precautions for safe handling:

Do not taste or swallow. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling.

Conditions for safe storage, including any incompatibilities:

Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store away from incompatible materials (see Section 10 of the MSDS).

Section 8. Exposure controls/personal protection

Occupational exposure limits	:	No exposure limits noted for ingredient(s).
Biological limit values	:	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	:	Good general ventilation (typically 10 air charges 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.
Eye/face protection	:	Wear safety glasses with side shields (or goggles).
Skin/hand protection	:	For prolonged repeated skin contact use suitable protective gloves.
Respiratory protection	:	In case of insufficient ventilation, wear suitable respiratory Equipment.
Thermal hazards	:	Wear appropriate thermal protective clothing, when necessary
Other	:	Wear appropriate thermal protective clothing.
General hygiene considerations	:	When using, do not eat, drink, or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Wash hands after handling and before eating.

Section 9. Physical and chemical properties

Appearance

Physical state	:	Solid. Dry flowable granules.
Color	:	Blue.
Odor	:	Odorless.
Odor threshold	:	Not applicable.
pH @ 20°C	:	5-9.
Melting/freezing point	:	Not available.
Boiling/condensation point	:	Not available.
Evaporation rate	:	Not available.
Flash point	:	Not available.
Auto Flamibility	:	Not available.
Flammability (solid, gas)	:	Not available.
Explosion hazards	:	Not available.
Vapor pressure	:	<0 hPa 25° C.
Relative density	:	Not available.
Solubility	:	350 g/l approx
Partition coefficient: n-octanol/water	:	-4.1 25°C
Auto-ignition temperature	:	➤ 392 °F (> 200 °C) DIN 51794

Decomposition temperature	: Not available.
Viscosity	: Not available.
Bulk Density	: 600-900 kg/m ³
pH in aqueous solution	: 5 – 9 2% solution
Molecular weight	: 61.8
Formula	: H ₃ BO ₃

Section 10. Stability and Reactivity

Reactivity	: The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Material stable under normal conditions.
Possibility of hazardous Reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Contact with incompatible materials.
Incompatible materials	: Strong oxidizing agents.
Hazardous decomposition products	: No hazardous decomposition products are known.

Section 11. Toxicological information

Ingestion	: Harmful if swallowed.
Inhalation	: Due to lack of data the classification is not possible.
Skin contact	: Due to lack of data the classification is not possible.
Eye contact	: Due to lack of data the classification is not possible.
Symptoms related to the Physical, chemical and Toxicological characteristics	: Direct contact with eyes may cause temporary irritation.
Acute toxicity	: Harmful if swallowed.

OECD Guideline 404

Product	Species	Test Results
Chelated Copper 14% (oral LD50)	Rabbit	Non-irritant

*Estimates for product may be based on additional component data not shown

Skin corrosion/irritation	: Due to lack of data the classification is not possible.
Serious eye damage/ eye irritation	: Due to lack of data the classification is not possible.
Respiratory sensitization	: Due to lack of data the classification is not possible.
Skin sensitization	: Due to lack of data the classification is not possible.
Germ cell mutagenicity	: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

- Carcinogenicity** : Due to lack of data the classification is not possible.
- Reproductive toxicity** : Due to lack of data the classification is not possible.
- Specific target organ toxicity Single exposure** : Due to lack of data the classification is not possible.
- Specific target organ toxicity repeated exposure** : Due to lack of data the classification is not possible.
- Aspiration hazard** : Due to lack of data the classification is not possible.

Section 12. Ecological Information

Product	Species	Test Results
Chelated Copper 14%	Fish	838 mg/l, 96 hours, estimated
EDTA, Disodium Copper	Channel catfish	838 mg/l, 96 hours

*Estimates for product may be based on additional component data not shown.

Persistence and degradability: No data is available on the degradability of this product.

Bioaccumulative potential: Not available.

Partition coefficient n-octanol/water (log Know):

Chelated Copper 14 % -4.1 25 degrees C

Mobility in soil: Not available.

Other adverse effects: No other adverse environment effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

Section 13. Disposal Considerations

Disposal Instructions: Collect and reclaim or dispose of in sealed containers at a licensed waste disposal sight. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/reginal/national/international 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 waste products: 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: Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Section 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.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - No
	Delayed Hazard - No
	Fire Hazard - No
	Pressure Hazard - No
	Reactivity Hazard - No

SARA 302 Extremely hazardous substance

No

SARA 311/312 Hazardous chemical

No

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 Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Not listed.

Food and Drug Administration (FDA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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 (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies 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).

Section 16. Other Information

Date of Revision: May 2019

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Further information: Not available.

Disclaimer: While the information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors May affect processing or application, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that the products, or information may be used without infringing the intellectual property rights of others. In no case shall the

information provide be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information may be used without infringing the intellectual property rights of others. In no case shall the information provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the information furnished by our company hereunder are given gratis and we assume no obligation or liability for the information given or results obtained, all such being given and accepted at your risk.

