

SAFETY DATA SHEET

1. Identification

Product identifier ChelStar 14% Zinc Chelate

Other means of identification Not available.

Synonym(s) DISODIUM ZINC EDTA

Recommended use Agriculture - Chelated Micronutrient - Refer to product label for application instructions

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Telephone

Company name Chemurgic Agricultural Chemicals, Inc.

Address P.O. Box 2106 Turlock, CA 95381

DAY: 209-634-2951 EVE: 209-652-7260

info@chemurgic.net E-mail

INFOTRAC: 1-800-535-5053 **Emergency phone number**

EPA National Response Center (800) 424-8802

2. Hazard(s) identification

Physical hazards Not classified. Not classified. **Health hazards OSHA** defined hazards Not classified.

Label elements

None. **Hazard symbol** Signal word None.

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

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

Not classified.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information

Not applicable.

3. Composition/information on ingredients

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

4. First-aid measures

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

Skin contact 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 Rinse mouth. Get medical attention if symptoms occur. **Most important** Direct contact with eyes may cause temporary irritation.

symptoms/effects, acute and

delayed

Indication of immediate Treat symptomatically.

medical attention and special treatment needed

ChelStar 14% Zinc Chelate 1/6 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. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

None known.

Specific hazards arising from

the chemical

During fire, gases 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

In the event of fire, cool tanks with water spray.

Specific methods Cool containers exposed to flames with water until well after the fire is out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep out of low areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the MSDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section

13 of the MSDS.

Environmental precautions Prevent further leakage or spillage if safe to do so.

7. Handling and storage

Precautions for safe handling

Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10

of the MSDS).

8. Exposure controls/personal protection

Occupational exposure limits

| U.S OSHA | | | |
|--|------|----------|----------------------------|
| Material | Туре | Value | Form |
| ChelStar 14% Zinc Chelate (CAS 14025-21-9) | TWA | 5 mg/m3 | DUST: Respirable fraction |
| | | 15 mg/m3 | DUST: Total dust |
| ACGIH | | | |
| Material | Type | Value | Form |
| ChelStar 14% Zinc Chelate (CAS 14025-21-9) | TWA | 3 mg/m3 | DUST: Respirable particles |
| | | 10 mg/m3 | 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.

Skin protection

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. **Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid. Dry flowable granules.

ChelStar 14% Zinc Chelate 2 / 6

Color White Odor Odorless. Odor threshold Not available.

5 - 9 pН

Salt-Out / Crystallization Temp Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not available. Flash point Not available. **Evaporation rate** 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. Not available. Explosive limit - upper (%) Vapor pressure Not available. Vapor density Not available. Not available. Relative density

Solubility(ies) 300 g/l Approximate

Partition coefficient

-8.8

(n-octanol/water)

> 986 °F (> 530 °C) **Auto-ignition temperature**

Not available. **Decomposition temperature** Not available. Viscosity

Other information

650 - 900 kg/m3 **Bulk density** Particle size 123.66 µm D10 209.67 µm D50 333.51 µm D90

10. Stability and reactivity

pH in aqueous solution

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

Chemical stability Material is stable under normal conditions.

6 - 8 2% Solution

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.

11. Toxicological information

Information on likely routes of exposure

Not available. Ingestion

Inhalation Due to lack of data the classification is not possible. Skin contact Due to lack of data the classification is not possible. Eve 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.

ChelStar 14% Zinc Chelate 3/6 **Acute toxicity**

Product Species **Test Results**

ChelStar 14% Zinc Chelate (CAS 14025-21-9)

Acute

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Due to lack of data the classification is not possible.

Irritation Corrosion - Skin Result: non-irritant

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. 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 -Due to lack of data the classification is not possible.

single exposure

Skin sensitization

Specific target organ toxicity -

repeated exposure

Due to lack of data the classification is not possible.

Due to lack of data the classification is not possible. Aspiration hazard

This product has no known adverse effect on human health. **Further information**

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**

ChelStar 14% Zinc Chelate (CAS 14025-21-9)

LC50 Fish Fish 500 mg/l, 96 hours, estimated

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

Bioaccumulative potential Not available. Partition coefficient n-octanol / water (log Kow)

-8.841

Mobility in soil Not 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 site.

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

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.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

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

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IMDG

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

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)

No

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely

hazardous substance

SARA 311/312 Hazardous No

chemical

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

Not regulated.

(SDWA)

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 Not regulated.

Administration (FDA)

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) | No |

SDS US

 Country(s) or region
 Inventory name
 On inventory (yes/no)*

 New Zealand
 New Zealand Inventory
 Yes

Philippines Philippine Inventory of Chemicals and Chemical Substances

(PICCS)

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).

16. Other information

Issue date 2/12/2016

Version # 01

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This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

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No