

Safety Data Sheet

ChelStar Liquid 6.5% Zn

1. Identification

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|--|--|
| 1.1 Product identifier | ChelStar Liquid 6.5% Zn |
| 1.2 Other means of identification | Zinc EDTA, Diammonium Salt, Zinc Diammonium Ethylenediaminetetraacetate (EDTA) |
| 1.3 Relevant identified uses of the substance or mixture and uses advised against | |
| Intended use | Agriculture – Chelated Micronutrient – See Technical Data Sheet. |
| Application Method | See Technical Data Sheet. |
| Restrictions on use | None known. |
| 1.4 Details of the supplier of the safety data sheet | |
| Company Name | Chemurgic Agricultural Chemicals, Inc. P.O. Box 2106 Turlock, CA 95381 |
| Company Phone Numbers | DAYS: (209) 634-2951; EVES: (209) 652-7260 |
| EMERGENCY PHONE NUMBERS: | |
| 24-Hour Emergency | INFOTRAC: 1-800-535-5053 |
| Telephone Number | EPA National Response Center: (800) 424-8802 |

2. Hazard(s) identification

2.1 Classification of the substance or mixture

Classification (GHS-US)

Not classified.

2.2 Label elements

| | |
|--------------------------|--|
| Hazard symbol: | None |
| Signal word: | None |
| Hazard statement: | The mixture does not meet the criteria for classification. |
| Precautionary statements | |
| Prevention: | Observe 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. |

2.3 Other hazards

Not classified.

3. Composition/information on ingredients

Mixture

Non-hazardous components

| Chemical Name | CAS Number | Weight % | Classification (GHS-US) |
|---|------------|-----------|-------------------------|
| Diammonium Zinc EDTA | 67859-51-2 | 30 - < 40 | Not classified |
| Tetraammonium Ethylenediaminetetraacetate | 22473-78-5 | < 1 | Not classified |
| Other components below reportable levels | | 60 - < 70 | |

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4. First aid measures

4.1. Description of first aid measures

| | |
|-------------------|--|
| General | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. |
| Inhalation | Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. |
| Eyes | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. |
| Skin | Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. If skin irritation occurs, get medical advice/attention. |
| Ingestion | Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician or Poison Control Center immediately. |

4.2. Most important symptoms and effects, both acute and delayed

Direct contact with eyes may cause temporary irritation.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

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.

5.2 Specific hazards arising from the substance or mixture

During fire, gases hazardous to health may be formed.

5.3 Advice for fire-fighters

Firefighting instructions:

Move containers from fire area if you can do so without risk.

Protection during firefighting:

Wear self-contained breathing apparatus and full protective clothing.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

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.

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Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.

7. Handling and storage

7.1. Precautions for safe handling

Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container only. Keep container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls and personal protection

8.1. Control parameters

Occupational exposure limits: No exposure limits noted for ingredient(s).

8.2. Appropriate engineering control

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.

8.3 Individual protection measures, such as personal protective equipment

Eye/face protection: 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.

Hygiene measures: Always observe good personal hygiene practices. Wash hands after handling the material and before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

| | |
|-------------------------------------|----------------------------|
| Physical state | Liquid |
| Form | Liquid |
| Color | Colorless to light yellow |
| Odor | Slightly. Ammoniacal. |
| Odor threshold | Not available |
| pH | 6 – 8 |
| Salt-Out / Crystalline Temp | < 32° F (< 0° C) estimated |
| Melting point/freezing point | Not available |

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|---|--|
| Initial boiling point and boiling range | > 212° F (> 100° C) estimated |
| Flash point | Not available |
| Evaporation rate (Butyl Acetate = 1) | Not available |
| Flammability (solid, gas) | Not available |
| Upper/lower flammability or explosive limits | Lower Explosive Limit: Not available Upper Explosive Limit: Not available |
| Vapor pressure (Pa) | 0 hPa estimated |
| Vapor density | Not available |
| Relative density | Not available |
| Solubility(ies) | 100% |
| Partition coefficient n-octanol/water | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | Not available |
| | |
| 9.2 Other information | |
| Density | 1.19 – 1.21 g/cm ³ (@ 68° F) |
| Percent volatile | 60.96% estimated |
| pH in aqueous solution | 6 – 8 (2% solution) |
| Pounds per gallon | 9.94 – 10.06 (@ 68° F) |
| Specific gravity | 1.19 – 1.21 (@ 68° F) |

10. Stability and reactivity

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

11. Toxicological information

Likely routes of exposure

| | |
|----------------------|--------------------|
| Ingestion: | Data not available |
| Inhalation: | Data not available |
| Skin contact: | Data not available |
| Eye contact: | Data not available |

Symptoms related to the physical, chemical and toxicological characteristics: Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity: Not available

Skin Corrosion/Irritation: Data not available

Serious Eye Damage/Irritation: Data not available

Respiratory Sensitization: Data not available

Skin Sensitization: Data not available

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are

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mutagenic or genotoxic.

Carcinogenicity: Data not available

Reproductive toxicity: Data not available

Specific target organ toxicity (single and repeated exposure): Data not available

Aspiration hazard: Data not available

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

12. Ecological information

12.1. Ecotoxicity: This 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.

12.2. Persistence and degradability: Data not available

12.3. Bioaccumulative potential: Not available

12.4. Mobility in soil: Not available

12.5. 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

13.1. Waste treatment methods

Remove waste in accordance with local and/or national regulations. Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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.

IMDG: Not regulated as dangerous goods.

15. Regulatory information

15.1 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.

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

Not listed.

SARA 304 Emergency release notification

Not regulated.

15.2 Other Federal regulations

Not regulated

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15.3 US State regulations

U.S. 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.

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

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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