

Safety Data Sheet ChelStar Liquid 9% Zn

1. Identification

1.1 Product identifier	ChelStar Liquid 9% 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	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	53	Not classified
Tetraammonium Ethylenediaminetetraacetate	22473-78-5	1 - < 3	Not classified
Other components below reportable levels		40 - < 50	

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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.

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

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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	6.5 – 8.5
Melting point/freezing point	Not available
Initial boiling point and boiling range	Not available
Flash point	Not available

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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	1.31 – 1.33 g/cm ³ (@ 68° F)
Percent volatile	46% as water estimated
pH in aqueous solution	6.5 – 8.5
Pounds per gallon	10.9 – 11.1 (@ 68° F)
Specific gravity	1.31 – 1.33 (@ 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 mutagenic or genotoxic.

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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

15.3 US State regulations

U.S. California Proposition 65

Not listed.

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16. Other information

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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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