



## FULCRUM ENTERPRISES INC

### Safety Data Sheet 9% Zinc EDTA

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#### SECTION 1: Identification

##### 1.1 Product identifier

Product name 9% Zinc EDTA

##### 1.2 Recommended use of the chemical and restrictions on use

liquid fertilizer

##### 1.3 Supplier's details

Name Fulcrum Enterprises Inc  
Address 5015 NW Canal Street  
Riverside MO 64150

Telephone 731-784-0605

##### 1.4 Emergency phone number(s)

Chemtrec 800-262-8200  
Customer Number: CCN840117

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#### SECTION 2: Hazard identification

##### General hazard statement

Not a hazardous substance or mixture.

##### 2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

##### 2.2 GHS label elements, including precautionary statements

###### Pictogram



###### Signal word

Danger

###### Hazard statement(s)

H302 Harmful if swallowed

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H332

Harmful if inhaled

### Precautionary statement(s)

|                |   |
|----------------|---|
| P260           | Do not breathe dust/fume/gas/mist/vapors/spray.   |
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.  |
| P264           | Wash ... thoroughly after handling.   |
| P270           | Do not eat, drink or smoke when using this product.   |
| P271           | Use only outdoors or in a well-ventilated area.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P301+P310      | IF SWALLOWED: Immediately call a POISON CENTER/doctor/...   |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER /doctor/...if you feel unwell,   |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  |
| P302+P352      | IF ON SKIN: Wash with plenty of water/...   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                             |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P310           | Immediately call a POISON CENTER/doctor/...   |
| P311           | Call a POISON CENTER/doctor/...   |
| P312           | Call a POISON CENTER/doctor/.../ if you feel unwell.  |
| P321           | Specific treatment (see ... on this label).   |
| P330           | Rinse mouth.  |
| P361+P364      | Take off immediately all contaminated clothing and wash it before reuse.  |
| P363           | Wash contaminated clothing before reuse.  |
| P403+P233      | Store in a well-ventilated place. Keep container tightly closed.  |
| P405           | Store locked up.  |
| P501           | Dispose of contents/container to ...  |

### 2.3 Other hazards which do not result in classification

Not a hazardous substance or mixture.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

#### Hazardous components

##### 1. Zinc oxide

|               |               |
|---------------|---------------|
| Concentration | Not specified |
| EC no.        | 215-222-5     |
| CAS no.       | 1314-13-2     |
| Index no.     | 030-013-00-7  |

- Hazardous to the aquatic environment, short-term (acute), Cat. 1
- Hazardous to the aquatic environment, long-term (chronic), Cat. 1

|      |  |
|------|--|
| H400 | Very toxic to aquatic life                           |
| H410 | Very toxic to aquatic life with long lasting effects |

##### 2. Ammonia gas

|               |               |
|---------------|---------------|
| Concentration | 30 % (weight) |
| EC no.        | 231-635-3     |
| CAS no.       | 7664-41-7     |

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Index no. 007-001-00-5

- Flammable gases, Cat. 2
- Press. Gas
- Acute toxicity, Cat. 3
- Skin corrosion/irritation, Cat. 1B
- Hazardous to the aquatic environment, short-term (acute), Cat. 1

|      |   |
|------|---|
| H221 | Flammable gas                           |
| H314 | Causes severe skin burns and eye damage |
| H331 | Toxic if inhaled                        |
| H400 | Very toxic to aquatic life              |

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

|  |  |
|--|--|
| If inhaled   | Remove to fresh air. If breathing becomes difficult, contact a medical physician. Give artificial respiration if victim is not breathing and obtain immediate medical attention.   |
| In case of skin contact                                | Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if skin becomes irritated.   |
| In case of eye contact                                 | Flush immediately with water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Call a physician if eye irritation persists.   |
| If swallowed   | Call physician or Poison Control Center immediately for most current information. Dilute with large amounts of water. Do not induce vomiting unless directed to do so by a medical professional. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If vomiting occurs, keep head lower than hips to prevent introduction of fluid into the lungs. |
| Personal protective equipment for first-aid responders | Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles. Avoid exposure to smoke or fumes. Contain any liquid runoff.  |

### 4.2 Most important symptoms/effects, acute and delayed

Eyes: May cause inflammation, redness, and possible damage with prolonged exposure.  
Skin: Prolonged or repeated exposure may cause skin ulcerations and /or burns.  
Inhalation: It may cause headaches, nausea, or weakness in case of prolonged exposure. Oxygen can be administered if breathing becomes difficult.  
Ingestion: May result in nausea, vomiting, diarrhea, digestive disorders, or chemical burns.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Water spray, Foam, Carbon Dioxide, Dry-Chemical.

### 5.2 Specific hazards arising from the chemical

Avoid high temperatures that may cause thermal decomposition or explosion, especially in confined or poorly ventilated spaces.

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Zinc oxide: Zinc/zinc oxides

### 5.3 Special protective actions for fire-fighters

Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles. Avoid exposure to smoke or fumes. Contain any liquid runoff.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For small or incidental spills, the minimum personal protective equipment should be rubber gloves, rubber apron, and chemical goggles. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Gas masks with ammonia canister or SCBA gear may be required. For large spills, contain by diking with soil or other non-combustible absorbent material. Dilution with water will reduce the release of ammonia vapors. Keep material out of sewers, storm drains, and surface waters. Comply with all applicable government regulations on spill reporting, handling, and waste disposal.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep away from incompatible materials.. Do not breathe mists. Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool (above 32°F), dry, well-ventilated area. This product should be stored in tanks constructed of stainless steel, fiberglass, polypropylene, or polyethylene. Valves should be inspected on a regular basis and replaced as needed to prevent leakage. Transfer equipment should be constructed of stainless steel or chemical-resistant plastic. Do not store in aluminum vessels.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. Ammonia (CAS: 7664-41-7)

PEL (Inhalation): 50 ppm (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 35 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 25 ppm, (ST) 35 ppm (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 25 ppm, (ST) 35 ppm (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 2. Zinc oxide fume (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

#### 3. Zinc oxide (CAS: 1314-13-2)

PEL (Inhalation): See PNOR (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

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### 4. Zinc oxide, Total dust (CAS: 1314-13-2)

PEL (Inhalation): 15 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 10 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 5 mg/m<sup>3</sup>, (C) 15 mg/m<sup>3</sup> (NIOSH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

### 5. Zinc oxide, Respirable fraction (CAS: 1314-13-2)

PEL (Inhalation): 5 mg/m<sup>3</sup> (OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 5 mg/m<sup>3</sup> (Cal/OSHA)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 2 mg/m<sup>3</sup>, (ST) 10 mg/m<sup>3</sup> (ACGIH)

OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

## 8.2 Appropriate engineering controls

Use with adequate ventilation to keep airborne levels below recommended exposure limits.

## 8.3 Individual protection measures, such as personal protective equipment (PPE)

### Eye/face protection

Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury. An eyewash should be nearby and ready for use.

### Skin protection

Rubber gloves with gauntlets. Use body protection appropriate for task. A safety shower should be nearby and ready for use.

### Body protection

Use body protection appropriate for task. Chemical-resistant coveralls and rubber aprons are generally acceptable. A safety shower should be nearby and ready for use.

### Respiratory protection

If work conditions generate vapors or mist, wear a NIOSH approved respirator appropriate for those emission levels. Appropriate respirator may be a full facepiece respirator, an SCBA in the pressure demand mode, or a supplied-air respirator.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |                     |
|---|---------------------|
| Appearance/form (physical state, color, etc.) | Clear liquid        |
| Odor  | Slight ammonia odor |
| Odor threshold                                | Slight ammonia odor |
| pH  | 7.0 to 7.5          |
| Melting point/freezing point                  | 32 F                |
| Initial boiling point and boiling range       | 212 F               |
| Flash point                                   | NA                  |
| Evaporation rate                              | NA                  |
| Flammability (solid, gas)                     | NA                  |
| Upper/lower flammability limits               | NA                  |
| Vapor pressure                                | NA                  |

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|  |              |
|--|--------------|
| Vapor density                          | NA           |
| Relative density                       | 11.0 lbs/gal |
| Solubility(ies)                        | NA           |
| Partition coefficient: n-octanol/water | NA           |
| Auto-ignition temperature              | NA           |
| Decomposition temperature              | NA           |
| Viscosity                              | NA           |
| Explosive properties                   | NA           |
| Oxidizing properties                   | NA           |

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### SECTION 10: Stability and reactivity

#### 10.1 Chemical stability

Stable under normal conditions and pressure.

#### 10.2 Conditions to avoid

Strong acids

#### 10.3 Incompatible materials

Avoid high heat

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### SECTION 11: Toxicological information

#### Information on toxicological effects

##### Acute toxicity

May cause severe gastrointestinal irritation, vomiting, stomach cramps, and diarrhea. May interfere with circulation and oxygen carrying capacity of blood with prolonged exposure.

Zinc oxide

LD50 Oral - Mouse - 7,950 mg/kg

// ----- From the Suggestion report (09/19/2019, 12:47 PM) ----- //

ATE (dermal) of mixture: 1000 mg/kg

// ----- From the Suggestion report (09/19/2019, 12:47 PM) ----- //

ATE (inhalation, gaseous) of mixture: 2333.33 ppmv

// ----- From the Suggestion report (09/19/2019, 12:47 PM) ----- //

ATE (inhalation, dust/mist) of mixture: 1.67 mg/l

// ----- From the Suggestion report (09/19/2019, 12:47 PM) ----- //

ATE (oral) of mixture: 333.33 mg/kg

##### Skin corrosion/irritation

Moderate irritant, especially with prolonged exposure. May cause skin ulceration and/or burns.

##### Serious eye damage/irritation

Moderate irritant. May cause redness, burning, inflammation, and/or damage.

##### Respiratory or skin sensitization

May cause irritation to mucous membranes, coughing, or breathing difficulties. If exposed to decomposition gases remove from area immediately.

Zinc oxide

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## Fulcrum 9% Zinc EDTA

LC50 Inhalation - Mouse - 2,500 mg/m3

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### SECTION 12: Ecological information

#### Toxicity

May be harmful to fish, livestock, and wildlife.

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### SECTION 13: Disposal considerations

#### Disposal of the product

Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste effluents or equipment rinsate. Dispose of waste effluents according to federal, state, and local regulations. Chemical additions or other alterations of this product may invalidate any disposal information in this SDS.

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### SECTION 14: Transport information

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### Massachusetts Right To Know Components

Chemical name: Ammonia

CAS number: 7664-41-7

Chemical name: Zinc oxide

CAS number: 1314-13-2

##### New Jersey Right To Know Components

Common name: AMMONIA

CAS number: 7664-41-7

Common name: ZINC OXIDE

CAS number: 1314-13-2

##### Pennsylvania Right To Know Components

Chemical name: Ammonia

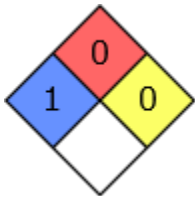
CAS number: 7664-41-7

Chemical name: Zinc oxide

CAS number: 1314-13-2

#### NFPA Rating

**Safety Data Sheet**  
**Fulcrum 9% Zinc EDTA**



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**SECTION 16: Other information**

The information and recommendations herein are taken from data contained in independent, industry recognized references including NIOSH, OSHA, ANSI, and NFPA. This information is, as of date listed above, true and accurate to the best of Fulcrum Enterprises Inc knowledge. It is intended for use by persons possessing technical knowledge and at their own discretion and risk. Since actual use is beyond our control, no guarantee, express or implied, and no liability is assumed by Fulcrum Enterprises Inc in conjunction with the use of this information. Actual conditions of use and handling may require consideration of information other than, or in addition to, that which is provided herein.