



# Safety Data Sheet

Report Date 29-Aug-18

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## 1. Identification

**Product Name** : MicroMerge Zinc  
**Synonyms** : None  
**Product Use** : Micronutrient Fertilizer  
**Manufacturer/Supplier** : Helena Agri-Enterprises, LLC  
**Address** : 225 Schilling Blvd. Collierville, TN 38017  
**General Information** : 901-761-0050  
**Transportation Emergency Number** : CHEMTREC:800-424-9300

## 2. Hazard Identification



**Signal Word** : Danger  
**Skin Irritation** : Causes skin irritation  
**Eye Irritation** : Causes serious eye damage  
**Acute Toxicity Oral** : No LD50 data available  
**Acute Toxicity Dermal** : No LD50 data available

**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-4/5/5; Eye/Skin Irritation-1/1B

**Hazard Statement** : Harmful if swallowed  
May be harmful in contact with skin  
May be harmful if inhaled  
Causes severe skin burns and eye damage

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Soil additive derived from zinc sulfate, zinc oxide, iron oxide, molybdenum and urea.	Proprietary	100.00
Sulfur (S):		6%
GUARANTEED ANALYSIS:		
Zinc (Zn):		10%

## 4. First Aid Measures

**Eye** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison control center or doctor.

**Skin** : Take off contaminated clothing. Wash with plenty of water. If skin irritation occurs, get medical advice/attention. Launder clothing before reuse.

**Inhalation** : Move to fresh air.

**Ingestion** : Call a poison control center or doctor if you feel unwell. Rinse mouth.

**Indication of Immediate Medical Attention and Special Treatment Needed** : In the event of an adverse response, treatment should be directed toward control of the symptoms.

## 5. Fire Fighting Measures



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**Extinguishing Media** : Use extinguishing media suitable for underlying cause of fire.  
**Specific Hazards Arising from the Chemical** : Decomposition may release oxides of carbon and sulfur and unknown materials.  
**Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing.

### 6. Accidental Release Measures

**Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.  
**Protective Equipment** : Wear protective gloves, protective clothing, eye protection and face protection.  
**Emergency Procedures** : Do not allow spilled product to enter drains, waterways or sewers.  
**Methods and Materials for Containment and Cleanup** : Sweep up spilled product and place in suitable containers. Reuse if uncontaminated. If contaminated, make arrangements for proper disposal.

### 7. Handling and Storage

**Precautions for Safe Handling** : Wash thoroughly after handling. Do not eat, drink or smoke when using this product.  
**Conditions for Safe Storage** : Store away from incompatible materials.

### 8. Exposure Controls / Personal Protection

**TLV/PEL** : Zinc oxide: PEL=10 mg/m<sup>3</sup>; TLV=10 mg/m<sup>3</sup>.  
**Appropriate Engineering Controls** : General and/or local exhaust ventilation should be sufficient.  
**Personal Protective Equipment** : Wear protective gloves, protective clothing, eye protection and face protection.

### 9. Physical and Chemical Properties

**Odor/Appearance** : Brown, granular solid; no odor.  
**Flash Point, °F** : No information on mixture  
**Boiling Point, °F** : Not applicable  
**Melting Point(Freezing point), °C** : Not applicable  
**Vapor Pressure, mm Hg @ 20 °C** : No information on mixture  
**Vapor Density** : No information on mixture  
**Solubility in Water** : No information on mixture  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : No information on mixture  
**Evaporation Rate(Butyl Acetate = 1)** : Not applicable  
**Octanol/Water Partition Coefficient** : No information on mixture  
**pH** : Not applicable  
**Flammable Limits (approximate volume % in air)** : No information on mixture  
**Auto-ignition Temperature** : No information on mixture.  
**Decomposition temperature** : No information on mixture

### 10. Stability and Reactivity

**Reactivity** : No information on mixture  
**Chemical Stability** : Stable



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- Hazardous Decomposition Products** : Decomposition may release oxides of carbon and sulfur and unknown materials.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : None known
- Incompatible Materials** : Strong bases, strong oxidizing agents and alkalis.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : No LD50 data on mixture. Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : No LD50 data on mixture. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No LC50 data on mixture. May be harmful if inhaled.
- Likely Routes of Exposure** : Ingestion, eye contact, skin contact
- Skin Irritation** : Causes severe skin burns and eye damage.
- Eye Irritation** : Causes serious eye damage.
- Skin Sensitization** : Not a sensitizer.
- Carcinogenic** : No components listed by IARC, NTP or OSHA.
- Chronic Effects** : No information found
- Other Hazards** : No information found

### 12. Ecological Information

- Ecotoxicity** : No information found on mixture
- Persistence and Degradability** : No information found on mixture
- Bioaccumulative Potential** : No information found on mixture
- Mobility in Soil** : No information found on mixture
- Other Adverse Effects** : No information found on mixture

### 13. Disposal Considerations

- Waste Disposal Method** : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

### 14. Transport Information

- UN Proper Shipping Name** : Not regulated by DOT in package sizes <7,692 pounds.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : No information found
- Transport in Bulk** : If shipped in single package  $\geq$  7,692 pounds, ship as: RQ, UN3077, Environmentally Hazardous Substance, Solid, n.o.s., (Zinc Sulfate), 9, PG III "ERG # 171"
- Special Precautions for Transportation** : Reportable Quantity (RQ) for Zinc Sulfate=1,000 lbs/7,692 lbs of mixture.
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Solid, NOIBN (NMFC Item 68140, Sub 5, Class 50)

### 15. Regulatory Information

**National Fire Protection Association Rating** :

Health: 2 Fire: 0 Reactivity: 0



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Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

**S.A.R.A Title III Hazard Classification (Yes/No)**

Immediate( Acute) Health: Y  
Delayed (Chronic) Health: N  
Sudden Release of Pressure: N  
Fire: N  
Reactive: N

### 16. Other Information

Data of Preparation/Revision : 29-August-2018