



## Safety Data Sheet

Report Date 28-Feb-20

Page 1 of 4

### 1. Identification

**Product Name** : NUTRI-LINK 8-27-0 PLUS ZINC  
**Synonyms** : None  
**Product Use** : Plant nutrient solution  
**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** : Warning (no symbol)  
**Skin Irritation** : Causes mild skin irritation  
**Eye Irritation** : Causes eye irritation  
**Acute Toxicity Oral** : May be harmful if swallowed  
**Acute Toxicity Dermal** : May be harmful in contact with skin  
  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye/Skin Irritation-2B/3  
  
**Hazard Statement** : May be harmful if swallowed  
May be harmful in contact with skin  
May be harmful if inhaled  
Causes eye irritation  
Causes mild skin irritation

### 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from polyammonium phosphates, ammonium carboxylates and zinc sulfate. The chelating agent is citric acid. The complexing agent is glucoheptonate.	Proprietary	100.00
GUARANTEED ANALYSIS: Total Nitrogen (N):		8.00%
8.00% Ammoniacal Nitrogen		
Available Phosphate (P2O5):		27.00%
Zinc (Zn):		0.4%
0.4% Chelated Zinc		

### 4. First Aid Measures

**Eye** : Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice.

**Skin** : Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

**Inhalation** : Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**Ingestion** : Call a poison control center or doctor immediately for treatment advice. Rinse mouth with water. Do not induce vomiting. Do not give anything by mouth if unconscious.

**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.



## Safety Data Sheet

Report Date 28-Feb-20

Page 2 of 4

### 5. Fire Fighting Measures

- Extinguishing Media** : Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : May emit ammonia or other toxic fumes under fire conditions.
- Special Fire Fight Proc** : Wear self-contained breathing apparatus and full protective clothing. Avoid exposure to smoke and fumes. Contain runoff from fire fighting.

### 6. Accidental Release Measures

- Personal Precautions** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.
- Emergency Procedures** : Dike spill area to prevent spread and runoff into lakes, streams, ponds, drains, sewers and waterways.
- Methods and Materials for Containment and Cleanup** : Pump up spilled liquid, contain and reuse, if uncontaminated. If contaminated, absorb with inert material, collect and place in suitable containers for proper disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Do not contaminate water, food or feed by storage, handling or disposal. Keep container tightly closed. Do not allow water to be introduced into the contents of the container.
- Conditions for Safe Storage** : Store in original container only. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : No TLV or PEL established for mixture.
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Respiratory protection not normally needed. Eyewash and emergency shower should be available in work area.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Clear to hazy liquid, slight ammonia odor.
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : >200 Degrees F.
- Melting Point(Freezing point), °C** : <30 Degrees F.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Soluble
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.315
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : Not available



## Safety Data Sheet

Report Date 28-Feb-20

Page 3 of 4

Flammable Limits (approximate volume % in air) : Not applicable  
Auto-ignition Temperature : Not applicable  
Decomposition temperature : No information found

### 10. Stability and Reactivity

Reactivity : No information found  
Chemical Stability : Stable  
Hazardous Decomposition Products : May produce oxides of nitrogen, oxides of phosphorus and ammonia.  
Hazardous Polymerization : Will not occur  
Conditions to Avoid : None currently known  
Incompatible Materials : Avoid contact with metals and bases.

### 11. Toxicological Information

Acute Toxicity (Oral LD50) : No LD50 available. May be harmful if swallowed.  
Acute Toxicity (Dermal LD50) : No LD50 available. May be harmful in contact with skin.  
Acute Toxicity Inhalation LC50 : No LC50 available. May be harmful if inhaled.  
Likely Routes of Exposure : Skin and eyes  
Skin Irritation : Causes mild skin irritation.  
Eye Irritation : Causes eye irritation.  
Skin Sensitization : Not listed as a sensitizer.  
Carcinogenic : Not listed by IARC, NTP or OSHA.  
Chronic Effects : None currently known.  
Other Hazards : CA PROPOSITION 65 WARNING: No listed ingredients appear on the CA PROPOSITION 65 WARNINGS listing.

### 12. Ecological Information

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

### 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, IATA or IMDG.  
Transport Hazard Class : None  
UN Identification Number : None  
Packaging Group : None  
Environmental Hazards : No information found  
Transport in Bulk : No information found



## Safety Data Sheet

Report  
Date 28-Feb-20

Page 4 of 4

**Special Precautions for** : No information found

**Transportation**

**Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

### 15. Regulatory Information

**National Fire Protection** :  
**Association Rating**

Health: 1 Fire: 1 Reactivity: 0  
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 N  
Pressure:  
Fire: N  
Reactive: N

### 16. Other Information

**Data of Preparation/Revision** : 28-February-2020