



Safety Data Sheet

Report Date 20-Apr-15

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1. Identification

Product Name : Teprosyn Zn/P FL 9-15-0
Synonyms : None
Product Use : Nutritional Liquid Flowable Seed Treatment
Manufacturer/Supplier : Helena Chemical Company
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 : No known significant effects or critical hazards.
Eye Irritation : No known significant effects or critical hazards.
Acute Toxicity Oral : LD50 > 5,000 mg/kg (rat)
Acute Toxicity Dermal : No information found

Hazard Categories : Oral/Dermal/Inhalation Toxicity - 5/5/5; Eye Irritation - 2B; Skin Irritation - 3

Hazard Statement : May be harmful if swallowed
May be harmful in contact with skin
Causes eye irritation
Causes mild skin irritation
May be harmful if inhaled

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Plant nutrients derived from Urea, Calcium Phosphate and Zinc Phosphate.	Proprietary	100.00
HAZARDOUS INGREDIENT: Phosphoric Acid, Zinc Salt (2:3)	7779-90-0	>= 35.00 to <45.00
GUARANTEED ANALYSIS: Total Nitrogen (N): 9% Available Phosphate (P2O5): 15% Zinc (Zn): 18%		

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. Have person sip a glass of water if able to swallow. Do not induce vomiting. Do not give anything by mouth if unconscious.

Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically.

5. Fire Fighting Measures



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- Extinguishing Media** : Use extinguishing media suitable for underlying cause of fire. Use water spray to cool containers.
- Specific Hazards Arising from the Chemical** : In combustion, emits toxic fumes.
- 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** : 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** : Do not spill into drains or waterways.
- Methods and Materials for Containment and Cleanup** : Absorb spilled liquid onto dry earth or sand. Collect and place in closable, labeled salvage container for disposal by an appropriate method.

7. Handling and Storage

- Precautions for Safe Handling** : Keep out of reach of children. Keep container tightly closed. Do not allow water to be introduced to the contents of this container. Do not contaminate water sources by cleaning of equipment or disposal of spray waste.
- Conditions for Safe Storage** : Store in original container protected from direct sunlight in a cool, dry place. Protect from frost (39 Degrees F) and other climatic extremes (temperatures exceeding 100 Degrees F).

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not determined 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** : Red liquid
- Flash Point, °F** : Not flammable
- Boiling Point, °F** : Not determined
- Melting Point(Freezing point), °C** : <0 Degrees C.
- Vapor Pressure, mm Hg @ 20 °C** : Not determined
- Vapor Density** : Not determined
- Solubility in Water** : Not determined
- Molecular Formula** : Not applicable, formulated mixture.
- Density, g/mL @ 25 °C** : 1.605
- Evaporation Rate(Butyl Acetate = 1)** : Not determined
- Octanol/Water Partition Coefficient** : No information found
- pH** : 8
- Flammable Limits (approximate volume % in air)** : Not determined
- Auto-ignition Temperature** : Not determined



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Decomposition temperature : Not determined

10. Stability and Reactivity

- Reactivity** : No specific test data available
- Chemical Stability** : Stable
- Hazardous Decomposition Products** : Thermal decomposition products include carbon dioxide, carbon monoxide, nitrogen oxides, phosphorus oxides, metal oxide, oxides of ammonia.
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Avoid contamination by any source including metals, dust and organic materials.
- Incompatible Materials** : Urea reacts with calcium hypochlorite or sodium hypochlorite to form explosive nitrogen trichloride.

11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >5,000 mg/kg (rat). May be harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : No data available. May be harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : No data available. Exposure to decomposition products may cause a health hazard.
- Likely Routes of Exposure** : Skin, 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 Prop 65 Warning: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

12. Ecological Information

- Ecotoxicity** : Very toxic to aquatic life with long lasting effects.
- Persistence and Degradability** : No known significant effects or critical hazards.
- Bioaccumulative Potential** : No known significant effects or critical hazards.
- Mobility in Soil** : Not available
- Other Adverse Effects** : No known significant effects or critical hazards.

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. See Special Precautions for Transportation.
- Transport Hazard Class** : None
- UN Identification Number** : None
- Packaging Group** : None
- Environmental Hazards** : Marine Pollutant (international only)
- Transport in Bulk** : None



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Special Precautions for Transportation : Regulated if shipped by air (IATA) or water (IMDG) as: UN3082, Environmentally Hazardous Substance, Liquid, n.o.s., (trizinc bis (orthophosphate)), 9, PG III, Marine Pollutant

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: 0 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 : 20-April-2015