



Safety Data Sheet

Report Date 28-Mar-16

Page 1 of 4

1. Identification

Product Name : NUTRI-LINK HP STARTER 7-23-1
Synonyms : None
Product Use : Starter Fertilizer
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
Skin Irritation : May cause skin irritation with repeated or prolonged contact.
Eye Irritation : May cause eye irritation after direct contact with liquid.
Acute Toxicity Oral : May cause gastrointestinal irritation and diarrhea if ingested.
Acute Toxicity Dermal : No hazard anticipated due to skin absorption.

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

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

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from ammonium polyphosphates, ammonium phosphate, potassium chloride and zinc EDTA.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		7.00
Available Phosphate (P2O5):		23.00
Soluble Potash (K2O):		1.00
Zinc (Zn):		0.46

4. First Aid Measures

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

Skin : Take off all contaminated clothing immediately. Rinse skin with water or shower. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Inhalation : Move person to fresh air. If 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 treatment advice.

Ingestion : Call a poison control center or doctor immediately. Rinse mouth. Do not induce vomiting. Do not give anything by mouth to an unconscious person.



Safety Data Sheet

Report Date 28-Mar-16

Page 2 of 4

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

5. Fire Fighting Measures

Extinguishing Media : Not flammable. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical : May evolve ammonia and 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, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Eyewash station and emergency shower should be available in area.
Emergency Procedures : Dike spill area to prevent spreading and runoff into lakes, streams, ponds, 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 : Do not contaminate water supplies, lakes, streams, ponds or drains with this material. Keep container tightly closed and do not allow water to be introduced into container contents.
Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. This product will freeze at temperatures less than 30 Degrees F. Thawing occurs readily at temperatures greater than 32 Degrees F.

8. Exposure Controls / Personal Protection

TLV/PEL : Not established for this mixture.
Appropriate Engineering Controls : General and/or local exhaust should be sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, long-sleeved shirt and long pants, shoes plus socks. Eyewash station and emergency shower should be available in area. Respiratory protection not normally needed.

9. Physical and Chemical Properties

Odor/Appearance : Pale yellow to yellow-green clear liquid.
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 : 1.295-1.315



Safety Data Sheet

Report Date 28-Mar-16

Page 3 of 4

Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : No information found
pH : 6.0-8.0
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 under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : Avoid contact with metals and bases.
Incompatible Materials : Metals and bases

11. Toxicological Information

Acute Toxicity (Oral LD50) : No oral LD50 data available. May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : No dermal LD50 data available. May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No inhalation LC50 data available. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes, ingestion and inhalation.
Skin Irritation : Causes skin irritation. May cause skin irritation with prolonged or repeated contact.
Eye Irritation : Causes serious eye irritation.
Skin Sensitization : Not a sensitizer.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

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



Safety Data Sheet

Report Date **28-Mar-16**

Page 4 of 4

UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : None
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 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 Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 28-March-2016