



Safety Data Sheet

Report Date 29-May-15

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1. Identification

Product Name : TRAFIX POLY-GROW 7-28-4
Synonyms : None
Product Use : NPK Fertilizer and Micronutrient Chelate Solution
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 upon contact with skin.
Eye Irritation : May cause severe eye irritation.
Acute Toxicity Oral : May cause irritation of the gastrointestinal tract, cramps, vomiting, convulsions or diarrhea.
Acute Toxicity Dermal : Not readily absorbed through skin.
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 Urea, Ammonium Polyphosphates, Potassium Phosphate, Copper EDTA, Manganese EDTA, Zinc EDTA, Iron HEDTA, Sodium Borate and Sodium Molybdate.	Proprietary	96.0
Active Ingredients:		
Humic Acids, derived from Leonardite	Proprietary	2.0
Ammonium Carboxylates (ASSET)	Proprietary	1.0
Glycine (Alpha Keto Acid)	Proprietary	1.0
GUARANTEED ANALYSIS:		
Total Nitrogen (N): 7.00%		
Available Phosphate (P2O5): 28.00%		
Soluble Potash (K2O): 4.00%		
Boron (B): 0.02%		
Copper (Cu): 0.05%		
Iron (Fe): 0.10%		
Manganese (Mn): 0.05%		
Molybdenum (Mo): 0.0125%		
Zinc (Zn): 0.05%		
Chlorine (Cl), not more than: 0.05%		
NOTE: The chelating agents are EDTA (ethylenediaminetetraacetic acid) and HEDTA (hydroxyethylenediaminetetraacetic acid).		



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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.

5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible liquid. Use extinguishing media suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : May produce metal oxides, phosphorus oxides, nitrogen oxides, ammonia, cyanuric acid and toxic volatile organic compounds under fire conditions.
- Special Fire Fight Proc** : Wear a 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 contaminate water supplies, lakes, streams, ponds, drains or sewers with spilled product.
- Methods and Materials for Containment and Cleanup** : Contain product and reuse if uncontaminated. If contaminated, cover with absorbent such as clay or sand, then place in a suitable salvage drum for 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 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.



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9. Physical and Chemical Properties

Odor/Appearance	: Clear green liquid with musty odor.
Flash Point, °F	: Non-combustible
Boiling Point, °F	: Not determined
Melting Point(Freezing point), °C	: Not determined
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	: 1.370-1.390
Evaporation Rate(Butyl Acetate = 1)	: Not determined
Octanol/Water Partition Coefficient	: No information found
pH	: 6.0 to 7.0
Flammable Limits (approximate volume % in air)	: Not determined
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 metal oxides, phosphorus oxides, nitrogen oxides, ammonia, cyanuric acid and toxic volatile organic compounds under fire conditions.
Hazardous Polymerization	: Will not occur
Conditions to Avoid	: Avoid allowing liquid to evaporate to dryness.
Incompatible Materials	: None currently known

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, eyes, ingestion, inhalation
Skin Irritation	: Causes skin irritation.
Eye Irritation	: Causes serious eye irritation.
Skin Sensitization	: Not listed as a skin sensitizer.
Carcinogenic	: Not listed by IARC, NTP or OSHA.
Chronic Effects	: No information found
Other Hazards	: No information found

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



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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.
Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found
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: 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 Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 29-May-2015