

Component	CAS Number	Weight %
Blend of plant nutrients derived from potassium hydroxide, ammonium phosphate, urea, sodium tetraborate, cobalt sulfate, ammonium molybdate, iron EDTA, copper EDTA, manganese EDTA and zinc EDTA.	Proprietary	100.00
Note: The chelating agent is EDTA (ethylenediaminetetraacetic acid).		
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		11.00%
2.40% Ammoniacal Nitrogen		
8.60% Urea Nitrogen		
Available Phosphate (P ₂ O ₅):		8.00%
Soluble Potash (K ₂ O):		5.00%
Boron (B):		0.02%
Cobalt (Co):		0.0005%
Copper (Cu):		0.05%
0.05% Chelated Copper		
Iron (Fe):		0.10%
0.10% Chelated Iron		
Manganese (Mn):		0.05%
0.05% Chelated Manganese		
Molybdenum (Mo):		0.0005%
Zinc (Zn):		0.05%



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0.05% Chelated Zinc

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** : Remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice/attention.
- Inhalation** : Call a poison control center or doctor if you feel unwell.
- Ingestion** : Call a poison control center or doctor if you feel unwell. Rinse mouth.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically.

5. Fire Fighting Measures

- Extinguishing Media** : Use fire extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.
- Specific Hazards Arising from the Chemical** : This material is non-combustible. If heated, corrosive and toxic vapors/gases may be formed. Hazardous combustion products include ammonia and phosphorous oxides.
- Special Fire Fight Proc** : Use self-contained breathing apparatus in positive pressure mode with full face mask when there is a possibility of exposure to smoke, fumes or hazardous decomposition products. Keep runoff out of water and sewers.

6. Accidental Release Measures

- Personal Precautions** : Avoid inhalation of vapors.
- Protective Equipment** : Chemical resistant and impervious clothes should be worn. Safety goggles must be worn at all times. Impervious apron and footwear.
- Emergency Procedures** : Do not discharge onto ground or into bodies of water. Prevent entry into drains.
- Methods and Materials for Containment and Cleanup** : Absorb with dry earth, clay, sand or other non-combustible material. Use a tool to scoop up soil or absorbed material and place into appropriately labeled waste container. Keep out of water ways.

7. Handling and Storage

- Precautions for Safe Handling** : Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Ensure there is access to eyewash and showers close to the workstation location.
- Conditions for Safe Storage** : Keep containers tightly closed and store in a cool, well-ventilated area. Keep away from heat and direct sunlight.

8. Exposure Controls / Personal Protection

- TLV/PEL** : Not specified
- Appropriate Engineering Controls** : General and/or local exhaust should be sufficient.
- Personal Protective Equipment** : Chemical resistant and impervious clothes should be worn. Safety goggles must be worn at all times. Impervious apron and footwear.

9. Physical and Chemical Properties



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Odor/Appearance : Clear light to dark green liquid, vitamin odor.
Flash Point, °F : Not applicable
Boiling Point, °F : >100 Degrees C.
Melting Point(Freezing point), °C : <35 Degrees F.
Vapor Pressure, mm Hg @ 20 °C : 18 MM Hg @ 23 Degrees C.
Vapor Density : 0.80 g/L
Solubility in Water : 100%
Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.205-1.225
Evaporation Rate(Butyl Acetate = 1) : Not determined
Octanol/Water Partition Coefficient : Not applicable
pH : 5.8-7.0 (pure)
Flammable Limits (approximate volume % in air) : Not applicable
Auto-ignition Temperature : Not applicable
Decomposition temperature : >200 Degrees C.

10. Stability and Reactivity

Reactivity : None
Chemical Stability : Stable
Hazardous Decomposition Products : Ammonia gas and phosphorous oxides may be produced under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None known
Incompatible Materials : None known

11. Toxicological Information

Acute Toxicity (Oral LD50) : >5,010 mg/kg (rat). May be harmful if swallowed.
Acute Toxicity (Dermal LD50) : >2,010 mg/kg (rat). May be harmful in contact with skin.
Acute Toxicity Inhalation LC50 : No information found. May be harmful if inhaled.
Likely Routes of Exposure : Skin, eyes, inhalation
Skin Irritation : Causes mild skin irritation. Slightly irritating
Eye Irritation : Causes eye irritation. Mildly to minimally irritating (rabbit)
Skin Sensitization : May cause an allergic skin reaction. Sensitizer (0.100% Buehler Test)
Carcinogenic : None currently known.
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 data available
Persistence and Degradability : No data available
Bioaccumulative Potential : No data available
Mobility in Soil : No data available
Other Adverse Effects : Keep out of water ways.

13. Disposal Considerations



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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 : None
Transport in Bulk : None
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: 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: Y
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 26-May-2020