



# Safety Data Sheet

Report Date 13-Apr-15

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## 1. Identification

**Product Name** : CoBo 12-0-0 Plus 5% B  
**Synonyms** : None  
**Product Use** : Controlled Release Nitrogen Plus Boron  
**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** : Causes skin irritation.  
**Eye Irritation** : Causes serious eye irritation.  
**Acute Toxicity Oral** : LD50 (rat) >1,720 mg/kg  
**Acute Toxicity Dermal** : LD50 (rabbit) >1,018 mg/kg

**Hazard Categories** : Oral/Dermal/Inhalation Toxicity - 4/4/4; Eye Irritation - 2A; Skin Irritation - 2

**Hazard Statement** : Harmful if swallowed  
Harmful in contact with skin  
Causes serious eye irritation  
Causes skin irritation  
Harmful if inhaled

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Liquid Foliar Nutritional Concentrate derived from Boric Acid, Urea, Methylene Diurea, Monomethylol Urea and Polymethylene Urea. GUARANTEED ANALYSIS: Total Nitrogen (N): 12.00% Boron (B): 5.00%	Proprietary	100.00

## 4. First Aid Measures

**Eye** : Flush eyes with water for 15 minutes, holding eyelids open. Obtain medical attention if irritation develops.

**Skin** : Wash skin thoroughly with soap and water. Get medical attention if irritation develops.

**Inhalation** : Move to fresh air. Obtain medical attention if irritation develops.

**Ingestion** : Drink large volumes of water. Do not induce vomiting. Obtain medical attention immediately.

**Indication of Immediate Medical Attention and Special Treatment Needed** : If there is contact made with a spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the product(s) labeling. Otherwise, treat symptomatically.

## 5. Fire Fighting Measures



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- Extinguishing Media** : Non-combustible product. Use extinguishing media for underlying cause of fire.  
**Specific Hazards Arising from the Chemical** : Product may release ammonia and carbon dioxide under fire conditions.  
**Special Fire Fight Proc** : Wear positive-pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

### 6. Accidental Release Measures

- Personal Precautions** : Avoid contact with skin and eyes.  
**Protective Equipment** : NIOSH-approved respirator for ammonia gas if mist or spray is present, impervious gloves, splashproof goggles, impervious apron and footwear. Safety shower and eyewash should be available.  
**Emergency Procedures** : Do not contaminate water supplies, lakes, streams, ponds or drains with spilled product.  
**Methods and Materials for Containment and Cleanup** : Contain spill. If uncontaminated, collect and reuse product. If contaminated, absorb on sand or clay and place in a recovery drum for proper disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. 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 with food, feed or other material to be used or consumed by humans or animals. Do not store near heat or open flame. Do not store with oxidizing agents or ammonium nitrate.

### 8. Exposure Controls / Personal Protection

- TLV/PEL** : Not established  
**Appropriate Engineering Controls** : Local exhaust should be sufficient.  
**Personal Protective Equipment** : NIOSH-approved respirator for ammonia gas if mist or spray is present, impervious gloves, splashproof goggles, impervious apron and footwear. Safety shower and eyewash should be available.

### 9. Physical and Chemical Properties

- Odor/Appearance** : Clear green liquid with ammonia odor.  
**Flash Point, °F** : Not flammable  
**Boiling Point, °F** : 102 Degrees C.  
**Melting Point(Freezing point), °C** : 35 Degrees F.  
**Vapor Pressure, mm Hg @ 20 °C** : 50 mmHg @ 21 Deg. C.  
**Vapor Density** : Not applicable  
**Solubility in Water** : Soluble  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 1.260-1.280  
**Evaporation Rate(Butyl Acetate = 1)** : 0.03  
**Octanol/Water Partition Coefficient** : No information found  
**pH** : 8.0-9.5  
**Flammable Limits (approximate volume % in air)** : Not applicable  
**Auto-ignition Temperature** : Not applicable  
**Decomposition temperature** : No information found



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### 10. Stability and Reactivity

- Reactivity** : No information found
- Chemical Stability** : Stable
- Hazardous Decomposition** : May release ammonia and carbon dioxide under fire conditions.
- Products**
- Hazardous Polymerization** : Will not occur
- Conditions to Avoid** : Temperatures above 125 Degrees F., or greater acid contamination.
- Incompatible Materials** : Avoid mixing or intimate contact with strongly acidic materials.

### 11. Toxicological Information

- Acute Toxicity (Oral LD50)** : >1,720 mg/kg (rat). Harmful if swallowed.
- Acute Toxicity (Dermal LD50)** : >1,018 mg/kg (rabbit). Harmful in contact with skin.
- Acute Toxicity Inhalation LC50** : 11 mg/L/4 hour (vapors). Harmful if inhaled.
- Likely Routes of Exposure** : Skin, eyes, inhalation
- Skin Irritation** : Causes skin irritation.
- Eye Irritation** : Causes serious eye irritation.
- Skin Sensitization** : Not listed as 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** : May promote eutrophication in waterways if large spills occur due to nitrogen content.

### 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
- Special Precautions for Transportation** : No information found
- Freight Classification** : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)



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## 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 Pressure: N  
Fire: N  
Reactive: N

## 16. Other Information

Data of Preparation/Revision : 13-April-2015