



# Safety Data Sheet

Report Date 16-Apr-15

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## 1. Identification

**Product Name** : ONLINE 2-5-3  
**Synonyms** : None  
**Product Use** : Ammonia Salts and Deposition Agents  
**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** : May be harmful if swallowed. Ingestion may result in vomiting and abdominal cramps.  
**Acute Toxicity Dermal** : May be harmful in contact with skin. Skin sensitizer; may cause an allergic skin reaction.  
**Hazard Categories** : Oral/Dermal/Inhalation Toxicity-5/5/5; Eye Irritation-2A; Skin Irritation-2; Skin Sensitizer-1B  
**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  
May cause an allergic skin reaction

## 3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Proprietary blend of ammonium polyacrylates, hydroxy carboxylates, and sulfate and polymeric deposition agents.	Proprietary	26.0
Components ineffective as an adjuvant, blend of plant nutrients derived from Potassium Phosphate, Ammonia Sulfate, Ammonia Salts of Carboxylic Acid, Sodium Tetraborate, Cobalt Sulfate, Sodium Molybdate, Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA. The chelating agent is EDTA (ethylenediaminetetraacetic acid).	Proprietary	74.0
GUARANTEED ANALYSIS:		
Total Nitrogen (N): 2.00%		
Available Phosphate (P2O5): 5.00%		
Soluble Potash (K2O): 3.00%		
Boron (B): 0.02%		
Cobalt (Co): 0.0005%		
Copper (Cu): 0.05%		
Iron (Fe): 0.10%		
Manganese (Mn): 0.05%		
Molybdenum (Mo): 0.0005%		
Zinc (Zn): 0.05%		



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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. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth if unconscious.
- Indication of Immediate Medical Attention and Special Treatment Needed** : Treat symptomatically. If contact is made with a spray solution containing pesticides, follow the "Statement of Practical Treatment/First Aid" on the pesticide label(s).

### 5. Fire Fighting Measures

- Extinguishing Media** : Non-combustible product. Use extinguishing agent suitable for underlying cause of fire.
- Specific Hazards Arising from the Chemical** : Product generates toxic and irritating fumes 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** : Keep unprotected and unnecessary personnel out of spill area.
- Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area. Use NIOSH-approved respirator with cartridge for ammonia vapors.
- Emergency Procedures** : Contain spilled product.
- Methods and Materials for Containment and Cleanup** : If uncontaminated, recover and reuse. If contaminated, carefully add lime or sodium carbonate to neutralize product. Collect and place in proper containers for disposal.

### 7. Handling and Storage

- Precautions for Safe Handling** : Keep locked up and out of reach of children. Keep container tightly closed. Do not allow water to be introduced into the contents of this 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** : Not established for mixture.
- Appropriate Engineering Controls** : Local exhaust sufficient.
- Personal Protective Equipment** : Splashproof goggles or face shield, impervious gloves, impervious apron and footwear. Eyewash and emergency shower should be available in work area. Use NIOSH-approved respirator with cartridge for ammonia vapors.



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### 9. Physical and Chemical Properties

**Odor/Appearance** : Dark green, clear liquid, ammonia odor.  
**Flash Point, °F** : Non-combustible  
**Boiling Point, °F** : 212 Degrees F.  
**Melting Point(Freezing point), °C** : <35 Degrees F.  
**Vapor Pressure, mm Hg @ 20 °C** : Not established  
**Vapor Density** : Not established  
**Solubility in Water** : Soluble  
**Molecular Formula** : Not applicable, formulated mixture.  
**Density, g/mL @ 25 °C** : 1.163-1.183  
**Evaporation Rate(Butyl Acetate = 1)** : Not established  
**Octanol/Water Partition Coefficient** : No information found  
**pH** : 4.5-6.0  
**Flammable Limits (approximate volume % in air)** : Not applicable  
**Auto-ignition Temperature** : Not applicable  
**Decomposition temperature** : No information found

### 10. Stability and Reactivity

**Reactivity** :  
**Chemical Stability** : S  
**Hazardous Decomposition Products** : May produce ammonia and phosphorous oxides under fire conditions.  
**Hazardous Polymerization** : W  
**Conditions to Avoid** :  
**Incompatible Materials** : Product may react vigorously with alkaline materials.

### 11. Toxicological Information

**Acute Toxicity (Oral LD50)** : No data available. Ingestion results in vomiting and abdominal cramps.  
**Acute Toxicity (Dermal LD50)** : No data available. May be harmful by skin absorption.  
**Acute Toxicity Inhalation LC50** : No data available. Inhalation may cause irritation to the nose and throat.  
**Likely Routes of Exposure** : Skin and eyes  
**Skin Irritation** : Skin contact causes irritation.  
**Eye Irritation** : Prolonged eye contact will result in severe irritation and possible burns.  
**Skin Sensitization** : May cause an allergic skin reaction.  
**Carcinogenic** : None currently known.  
**Chronic Effects** : None currently known.  
**Other Hazards** : None currently known.

### 12. Ecological Information

**Ecotoxicity** : No information available  
**Persistence and Degradability** : No information available  
**Bioaccumulative Potential** : No information available  
**Mobility in Soil** : No information available  
**Other Adverse Effects** : No information available



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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, 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)

## 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** : 16-April-2015