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**SECTION 1: Identification**

- 1.1 GHS Product identifier**  
Product name Multi-Action™ Copper
- 1.2 Other means of identification**  
UG 3% Copper Acid  
Ultra Gro Copper Acid
- 1.3 Recommended use of the chemical and restrictions on use**  
Agricultural/ Horticultural Use- Micronutrient Fertilizer
- 1.4 Supplier's details**  
Name Ultra Gro LLC  
Address 1043 S Granada Ave  
Madera CA 93637 USA  
Telephone (559) 661-0977  
email office@ultragro.com
- 1.5 Emergency phone number** 1-800-424-9300 - CHEMTREC - U.S. Canada, Puerto Rico - 24 Hrs

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**SECTION 2: Hazard identification**

- General hazard statement**  
The mixture does not meet the criteria for classification.
- 2.1 Classification of the substance or mixture**  
**GHS classification by OSHA (29 CFR 1910.1200, 2012)**
- 2.2 GHS label elements, including precautionary statements**
- 2.3 Other hazards which do not result in classification**  
Not classified.

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**SECTION 3: Composition/information on ingredients**

- 3.2 Mixtures**  
**Hazardous components**
- 1. UG Proprietary Blend of Non-Hazardous Ingredients**  
Concentration 65 - 85 % (weight)
- 2. Copper oxide sulfate (Cu3O2(SO4))**  
Concentration 1 - 5 % (weight)  
CAS no. 12158-97-3

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**SECTION 4: First-aid measures**

- 4.1 Description of necessary first-aid measures**  
If inhaled, Move to fresh air. Call a physician if symptoms develop or persist.
- If in case of skin contact, Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
- Immediately flush your eyes with plenty of water for at least 15 minutes in case of eye contact. Remove contact lenses, if present, and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
- If swallowed Rinse mouth. Get medical attention if symptoms occur.
- Personal protective equipment for first-aid responders  
Wear eye/face protection. Wash thoroughly after handling. Avoid release to the environment.  
Wear protective gloves.
- 4.2 Most important symptoms/effects, acute and delayed**  
Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed.

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### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

### 5.2 Specific hazards arising from the chemical

Copper(II) sulfate pentahydrate: Sulphur oxides, Copper oxides

### 5.3 Special protective actions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Further information

Use standard firefighting procedures and consider the hazards of other involved materials. No unusual fire or explosion hazards were noted.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment, and emergency procedures

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear eye/face protection. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves.

### 6.2 Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Contact local authorities in case of spillage to the drain/aquatic environment. Prevent further leakage or spillage if it is safe to do so. Avoid discharge into drains, water courses, or onto the ground.

### 6.3 Methods and materials for containment and cleaning up

Large Spills: This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or entering sewage and drainage systems leading to waterways. Stop the flow of material if this is done without risk. Dike the spilled material, where this is possible. Cover with a plastic sheet to prevent spreading. Absorb in vermiculite, dry sand, or earth and place into containers. Following product recovery, flush the area with water.

Small Spills: Wipe with absorbent material (e.g., cloth, fleece). Clean the surface thoroughly to remove residual contamination.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with eyes. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in the original tightly closed container. Keep the container tightly closed. Store away from incompatible materials (see Section 10 of the SDS).

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## SECTION 8: Exposure controls/personal protection

### 8.2 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. Use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits if applicable. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and an emergency shower must be available when handling this product.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

A face shield is recommended. Wear safety glasses with side shields (or goggles).

#### Skin protection

Wear appropriate chemical-resistant gloves. Wear appropriate chemical-resistant clothing. Use of an impervious apron is recommended.

#### Body protection

Wear appropriate chemical-resistant gloves. Wear appropriate chemical-resistant clothing. Use of an impervious apron is recommended.

#### Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection is not required.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

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### Environmental exposure controls

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

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## SECTION 9: Physical and chemical properties

### Basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Blue to Brown
Odor	slight lignin
Odor threshold	Not available.
Melting point/freezing point	Not available.
The boiling point or initial boiling point and boiling range	302 °F (150 °C) estimated
Flammability	Noncombustible
Lower and upper explosion limit/flammability limit	Not available.
Flash point	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	4-5.5
Kinematic viscosity	Not available.
Solubility	Soluble in water
Partition coefficient n-octanol/water (log value)	Not available.
Vapor pressure	0.00001 hPa estimated
Evaporation rate	Not available.
Density and/or relative density	1.125
Relative vapor density	>1

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product is stable and non-reactive under regular use, storage, and transport conditions.

### 10.2 Chemical stability

Material is stable under normal conditions.

### 10.3 Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Contact with incompatible materials. Strong oxidizing agents.

### 10.5 Incompatible materials

Copper(II) sulfate pentahydrate: Powdered metals, Anhydrous copper(II) sulfate, reacts violently with: hydroxylamine, Magnesium

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Oral LD50 Rat 4789 mg/kg estimated

#### Skin corrosion/irritation

Causes skin irritation.

This product is not expected to cause skin sensitization.

#### Severe eye damage/irritation

Causes severe eye irritation.

#### Respiratory or skin sensitization

This product is not expected to cause respiratory or skin sensitization.

#### Germ cell mutagenicity

No data is available to indicate that the product or any components present at greater than 0.1% are mutagenic or genotoxic.

#### Carcinogenicity

IARC, ACGIH, NTP, or OSHA do not consider this product a carcinogen.

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### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

### Specific target organ toxicity (STOT) - single exposure

No data available

### Specific target organ toxicity (STOT) - repeated exposure

No data available

### Aspiration hazard

Prolonged inhalation may be harmful.

It may be harmful if swallowed and enters the airways.

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## SECTION 12: Ecological information

### Toxicity

Crustacea Fish: EC50 Daphnia Fish Species: 39.521 mg/l, 48 hours estimated

Fish LC50: 3.3 mg/l, 96 hours estimated

### Persistence and degradability

No data on the degradability of this product is available.

### Bioaccumulative potential

Not available.

### Mobility in soil

No data are available.

### Other adverse effects

No other adverse environmental effects (e.g., ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

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## SECTION 13: Disposal considerations

### Disposal methods

#### Product disposal

Collect, reclaim, or dispose of in sealed containers at licensed waste disposal sites. Dispose of contents/container by local/regional/national/international regulations.

#### Packaging disposal

Since emptied containers may retain product residue, follow label warnings even after the container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

#### Waste treatment

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers.

#### Sewage disposal

Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways, or ditches with chemical or used containers.

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## SECTION 14: Transport information

### Not regulated as dangerous goods.

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

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### SECTION 15: Regulatory information

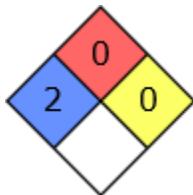
#### 15.2 Chemical Safety Assessment

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated.  
CERCLA Hazardous Substance List (40 CFR 302.4) Not listed.  
SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052) Not regulated.  
SARA 302 Extremely hazardous substance Not listed.  
SARA 311/312 Hazardous chemical  
SARA 313 (TRI reporting) Not regulated.  
No Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List Not regulated.  
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated.  
Safe Drinking Water Act (SDWA) US state regulations

#### HMIS Rating

Multi-Action Copper	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B

#### NFPA Rating



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### SECTION 16: Other information

#### 16.1 Further information/disclaimer

The information and data contained herein are based upon facts considered to be correct as of the date hereof. Information is supplied upon the condition that the persons receiving it will determine its suitability for their purposes before use. In no event will Ultra Gro, LLC be responsible for damages resulting from the use or reliance upon this information. No representations or warranties, expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder concerning information or the product to which this information refers.