

## 1. Product and Company Identification

**Product Code:** FGAU121, FGAU122, FGAU123, FGAU124  
**Product Name:** WL COPPER CHELATE  
**Trade Name:** WL COPPER CHELATE  
**Company Name:** Stoller Australia  
1 Cresswell Road  
Largs Bay  
South Australia 5016,  
**Web site address:** www.stoller.com.au  
**Email address:** stoller@stoller.com.au  
**Emergency Contact:** STOLLER PRODUCTION CHEMIST Contact  
number: 08 8169-0988 1800 337-845  
**Information:** For agricultural use only  
**Intended Use:** Chelated micronutrient solution  
**Synonyms:**

## 2. Hazards Identification

**Serious Eye Damage/Eye Irritation, Category 2B**

**Acute Toxicity: Oral, Category 4**

**Acute Toxicity: Inhalation, Category 5**

**Aquatic Toxicity (Chronic), Category 4**



**GHS Signal Word:** **Warning**

**GHS Hazard Phrases:** H302 - Harmful if swallowed.  
H320 - Causes eye irritation.  
H333 - May be harmful if inhaled.  
H413 - May cause long lasting harmful effects to aquatic life.

**GHS Precaution Phrases:** P264 - Wash hands thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P273 - Avoid release to the environment.

**GHS Response Phrases:** P301+312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 - Rinse mouth.  
P337+313 - If eye irritation persists, get medical advice/attention.

**GHS Storage and Disposal Phrases:** P501 - Dispose of contents/container to treatment at a permitted facility or as advised by your local regulatory authority.

**Potential Health Effects (Acute and Chronic):** Acute: Depending on the duration of contact, overexposure can irritate the eyes, skin, mucous membranes and any other exposed tissue.

**Inhalation:** Prolonged exposure to low concentrations of vapors may cause sore throat, headache, nausea, dizziness and even unconsciousness.

**Skin Contact:** May cause discomfort, skin irritation or rash unless treated promptly.

**Eye Contact:** Contact with product may cause redness, slight to severe eye irritation.

**Ingestion:** May be harmful if swallowed.



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## 3. Composition/Information on Ingredients

CAS #	Components (Chemical Name)	Concentration	
7758-99-8	Copper(II) sulfate pentahydrate	<20.0 %	

## 4. First Aid Measures

<b>Emergency and First Aid Procedures:</b>	Victims of severe exposure to chemicals must be taken to health providing centers for medical attention. Always bring with victim a copy of label and SDS of product to health professional.
<b>In Case of Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid if irritation develops or persists.
<b>In Case of Skin Contact:</b>	Wipe off product and immediately wash affected area with plenty of soap and water. Remove contaminated clothing, taking care not to impregnate eyes. Seek medical attention if irritation occurs.
<b>In Case of Eye Contact:</b>	Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid if irritation or symptoms occur.
<b>In Case of Ingestion:</b>	Immediately contact a physician or poison control center for treatment advice. Victim should drink milk, egg whites or large quantities of water and be induced to vomiting. Never give anything by mouth to someone who is unconscious, having convulsions or unable to swallow.
<b>Note to Physician:</b>	Treat symptomatically and supportively.

## 5. Fire Fighting Measures

<b>Flash Pt:</b>	N.A.
<b>Explosive Limits:</b>	LEL: N.A. UEL: N.A.
<b>Autoignition Pt:</b>	N.A.
<b>Suitable Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or chemical foam.
<b>Unsuitable Extinguishing Media:</b>	None known.
<b>Fire Fighting Instructions:</b>	As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
<b>Flammable Properties and Hazards:</b>	Toxic fumes under fire conditions, such as SH <sub>2</sub> , SO, SO <sub>2</sub> , CO, CO <sub>2</sub> , etc.
<b>Hazardous Combustion Products:</b>	None known.

## 6. Accidental Release Measures

<b>Protective Precautions, Protective Equipment and Emergency Procedures:</b>	In case of a large spill, clear the affected area and protect people. Such releases should be responded to by trained personnel using pre-planned procedures. In the event of an incidental release, minimum Personal Protective Equipment must be worn: latex or rubber gloves and rubber boots, goggles or full face-shield and coveralls.
<b>Environmental Precautions:</b>	Do not allow to enter drains or waterways.
<b>Steps To Be Taken In Case Material Is Released Or Spilled:</b>	It is necessary to contain the spill into the smallest area possible by diking, scooping, etc., and place liquid into an appropriate container, labeling it accordingly. If product is clean, use it as intended, following original label directions; should it get dirty or contaminated, salvage for proper disposal as waste. Absorb residual product onto dry carrier such as dirt, sand or any other absorbent material, then put in covered, labeled containers and dispose of as dry waste in accordance with Federal, State and Local waste disposal regulations.



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## 7. Handling and Storage

**Precautions To Be Taken in Handling:** Use with adequate ventilation. Avoid breathing dust, mist, or vapor. Avoid contact with eyes, skin, or clothing. Avoid ingestion and inhalation. Use only in a well-ventilated area. Empty containers may contain residual liquid or vapors and therefore should be handled the same as full containers.

**Precautions To Be Taken in Storing:** Inspect all incoming containers before storage to ensure all are properly labeled and not damaged. Keep containers tightly closed when not in use. Store in a cool, dry place, away from direct sunlight, sources of intense heat or where freezing is possible. Store away from food, feed, clothing materials and living quarters. Whenever possible, place chemicals on secondary containers or diked area.

## 8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
7758-99-8	Copper(II) sulfate pentahydrate	No data.	TLV: 1 mg/m <sup>3</sup> as Cu	No data.

**Recommended Exposure Limits:** No occupational exposure limits have been established for this mixture.

**Respiratory Equipment (Specify Type):** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use. If the respirator is the sole means of protection, use a full-face supplied air respirator.

**Eye Protection:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Protective Gloves:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Other Protective Clothing:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear long sleeve shirt, long pants, and protective shoes with socks.

**Engineering Controls (Ventilation etc.):** General ventilation is usually adequate. Local exhaust should be used if needed for safe, comfortable working conditions. An eye bath and washing facilities should be readily available.

**Work/Hygienic/Maintenance Practices:** Handle in accordance with good industrial hygiene and safety practice. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove all dirty or contaminated clothing and wash it before reusing, as well as any other PPE.

**Environmental Exposure Controls:** Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water.



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### 9. Physical and Chemical Properties

<b>Physical States:</b>	[ ] Gas [ X ] Liquid [ ] Solid
<b>Appearance and Odor:</b>	Opaque, dark brown color. Pleasant, characteristic odor.
<b>pH:</b>	2.2 - 4.2
<b>Freezing Point:</b>	No data.
<b>Boiling Point:</b>	No data.
<b>Flash Pt:</b>	N.A.
<b>Evaporation Rate:</b>	No data.
<b>Flammability (solid, gas):</b>	Product is non-flammable.
<b>Explosive Limits:</b>	LEL: N.A. UEL: N.A.
<b>Vapor Pressure (vs. Air or mm Hg):</b>	N.E.
<b>Vapor Density (vs. Air = 1):</b>	N.E.
<b>Specific Gravity (Water = 1):</b>	1.15 - 1.17
<b>Density:</b>	9.7 LB/GA
<b>Solubility in Water:</b>	No data.
<b>Saturated Vapor Concentration:</b>	N.E.
<b>Octanol/Water Partition Coefficient:</b>	N.E.
<b>Percent Volatile:</b>	N.A.
<b>Autoignition Pt:</b>	N.A.
<b>Decomposition Temperature:</b>	No data.
<b>Viscosity:</b>	N.E.

### 10. Stability and Reactivity

<b>Reactivity:</b>	N.A.
<b>Stability:</b>	Unstable [ ] Stable [ X ]
<b>Conditions To Avoid - Instability:</b>	Stable under normal conditions, but avoid extreme heat and contact with incompatible materials.
<b>Incompatibility - Materials To Avoid:</b>	Strong oxidizing agents, silicon based products.
<b>Hazardous Decomposition or Byproducts:</b>	Toxic fumes under fire conditions, like SH <sub>2</sub> , SO, SO <sub>2</sub> , CO, CO <sub>2</sub> , etc.
<b>Possibility of Hazardous Reactions:</b>	Will occur [ ] Will not occur [ X ]
<b>Conditions To Avoid - Hazardous Reactions:</b>	None known.



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### 11. Toxicological Information

<b>Toxicological Information:</b>	Mutagenicity: This product has not been investigated for mutagenic effects. Embryotoxicity: This product has not been investigated for embryotoxic effects. Teratogenicity: This product has not been investigated for teratogenic effects. Reproductive Toxicity: This product has not been investigated for toxic reproductive effects. CAS# 7758-99-8: Copper(II) sulfate pentahydrate: Acute toxicity, LD50, Oral, Rat, 300.0 MG/KG. Result: Behavioral: Altered sleep time (including change in righting reflex). Behavioral: Change in motor activity (specific assay). Behavioral: Antipsychotic. - "Agricultural Chemicals," 1976/77 revision, Thomson, W.T., 4 vols., Thomson Publications, Fresno, CA, Vol/p/yr: 2,182, 1977
<b>Irritation or Corrosion:</b>	No data available.
<b>Symptoms related to Toxicological Characteristics:</b>	No data available.
<b>Sensitization:</b>	The sensitizing properties of this product have not been thoroughly investigated.
<b>Chronic Toxicological Effects:</b>	The toxicological properties of this material have not been fully investigated.
<b>Carcinogenicity/Other Information:</b>	The carcinogenic properties of this product have not been thoroughly investigated.
<b>Carcinogenicity:</b>	NTP? No      IARC Monographs? No      OSHA Regulated? No

### 12. Ecological Information

<b>General Ecological Information:</b>	The available data on this material does not indicate any undue hazard to the environment under anticipated use and storage. All work practices must be aimed at eliminating environmental contamination. Any waste due to spillage or leakage should be contained and disposed of accordingly, see above under Section 6 "Accidental Release Measures." May be toxic to fish due to its copper component.  To aid our customers in complying with regulatory requirements, SARA Title III hazard categories for this product are indicated in Section 15. If the word "YES" is marked next to any category, this product may be reportable by you under the requirements of 40 CFR Part 370. Please consult those regulations for details.
<b>Results of PBT and vPvB assessment:</b>	No data available.
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulative Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.



### 13. Disposal Considerations

**Waste Disposal Method:** This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local waste regulatory authority. Avoid contaminating water by disposal of equipment wash waters or other product wastes.  
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### 14. Transport Information

**LAND TRANSPORT (US DOT):**

**DOT Proper Shipping Name:** Trade Name: WL COPPER CHELATE  
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**DOT Hazard Class:**

**UN/NA Number:**

**MARINE TRANSPORT (IMDG/IMO):** Not classified as Dangerous Goods by the criteria of the International Maritime

**IMDG/IMO Shipping Name:** Dangerous Goods Code (IMDG Code) for transport by sea;  
NON-DANGEROUS GOODS

**UN Number:**

**Hazard Class:**

**IMDG EMS Page:** Not classified as Dangerous Goods by the criteria of the International Air

**AIR TRANSPORT (ICAO/IATA):** Transport Association (IATA) Dangerous Goods Regulations for transport by  
**ICAO/IATA Shipping Name:** air; NON-DANGEROUS GOODS.

**Additional Transport Information:**

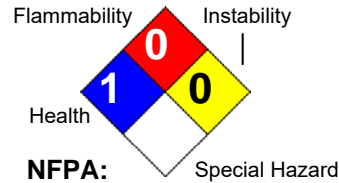
### 15. Regulatory Information

**Regulatory Information Statement:** The components of this product are listed on the Australian Inventory of Chemical Substances (AICS) or are made from other materials (proprietary) that are also listed on the AICS.  
Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport

## 16. Other Information

**Revision Date:** 01/12/2020

**Hazard Rating System:**



**Additional Information About** No data available.

**This Product:**

**Company Policy or**

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