



# Spraygro Liquid Fertilizers

ABN 47 007 974 496

December 2009

## Material Safety Data Sheet

PRODUCT NAME **BLUESTRIPE MANGANESE COPPER SULFATE**

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

### 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Supplier Name** Foliar Fertilizers Pty Ltd  
**Address** 52 Bedford Street, Gillman, South Australia, 5013  
**Telephone** 08 8447 7266  
**Fax** 08 8240 1844  
**Emergency Contacts** 0438 897 977 – Product Chemist  
0407 606 409 – National Sales Manager  
**Website** www.spraygro.com.au  
**Poison Information Centre** 13 11 26  
**Synonym(s)** Aqueous solution of manganese and copper sulfates  
**Use(s)** Fertilizer

### 2 HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO WORKSAFE AUSTRALIA

NOT CLASSIFIED AS A SCHEDULED POISON

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

**UN No.** None allocated      **Hazchem Code** None allocated      **Packaging Group** None allocated  
**DG Class** None allocated      **Subsidiary Risk(s)** None allocated

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Concentrate	CAS No
manganese sulfate	30-60%	
copper sulfate	<10%	

### 4 FIRST AID MEASURES

**Eye** Hold eyelids apart and flush continuously with water. Continue for at least 15 minutes or until advised to stop by the Poisons Information Centre or a doctor.  
**Inhalation** Inhalation may cause nausea, headache, pain and gastrointestinal irritation.  
**Skin** Flush immediately and thoroughly with water. If irritation persists, seek medical attention.  
**Ingestion** If conscious, immediately give large quantity of water but do not induce vomiting. Consult a doctor promptly. For advice contact the Poisons Information Centre on 13 11 26 (Australia wide) or a doctor.  
**Medical Advice** Treat symptomatically.

### 5 FIRE FIGHTING MEASURES

**Extinguishing** Water spray, foam or carbon dioxide.  
**Fire & Explosion** May evolve oxides of sulfur when heated to decomposition. Likely to explode if mixed with alkali + hydrogen peroxide.  
**Special Fire Fighting Procedures** Wear protective clothing, respirator and goggles while fighting fire. Isolate combustible materials. Isolate area of fire.  
**Flammability** Not flammable.  
**Hazchem Code** None allocated.

### 6 ACCIDENTAL RELEASE MEASURES

**Spill Response** This product is moderately acidic. Wear protective gear as outlined in Section 8 while cleaning spillage. Confine spillage, do not let it run into drains. Neutralize with soda ash or lime. Soak up with inert material.  
**Waste Disposal** Comply with procedures laid down by local, state and federal governments.



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## 7 HANDLING AND STORAGE

<b>Handling</b>	Do not mix this product with any other product except under specific advice from the manufacturer. Carefully read the product label before using. Always wash hands, eyes and exposed parts after handling this product. Do not eat, drink or smoke when handling this product.
<b>Storage</b>	Do not store in direct sunlight – containers are likely to become brittle. Do not store close to food or food cartons. Store in a cool, dry place. Do not store near strong oxidising substances, acids and alkalis. Keep out of reach of children and pets. Seek medical advice upon exposure.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Ventilation</b>	When pouring or spraying this product, avoid inhalation of mists and aerosols. Wear gloves and goggles when pouring this product. When exposure to spray mists containing this product can not be avoided, wear a good quality respirator suitable for this application.
<b>PPE</b>	When spraying this product, wear appropriate equipment protective for eyes, lungs and skin. Wash contaminated equipment including clothing before reuse.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	clear blue liquid	<b>Solubility in water</b>	completely soluble
<b>Odour</b>	minor	<b>Specific gravity</b>	1.36 approx
<b>pH</b>	3 approx	<b>% volatiles</b>	68% approx
<b>Vapour pressure</b>	same as water	<b>Flammability</b>	not flammable
<b>Vapour density</b>	same as water	<b>Flash Point</b>	not applicable
<b>Melting point</b>	no data	<b>Upper explosion limit</b>	not applicable
<b>Boiling point</b>	105C	<b>Lower explosion limit</b>	not applicable
<b>Evaporation rate</b>	no data	<b>Autoignition temperature</b>	not applicable
<b>Bulk density</b>	not applicable	<b>Decomposition temperature</b>	no data

## 10 STABILITY AND REACTIVITY

<b>Reactivity</b>	This product will react with a variety of acids, alkalies and salts to form non-dangerous precipitates.
<b>Decomposition Products</b>	Various depending on heat and/or exposure to other mixtures.

## 11 TOXICOLOGICAL INFORMATION

<b>Health Hazard Summary</b>	This product is an irritant with moderate toxicity.
<b>Eye</b>	Irritant. Exposure may result in pain and redness.
<b>Inhalation</b>	Irritant. Exposure may result in nausea, headache, pain and gastrointestinal irritation.
<b>Skin</b>	Irritant. Prolonged and repeated contact may result in skin rash and dermatitis.
<b>Ingestion</b>	Moderate toxicity. Ingestion may result in nausea, vomiting, gastrointestinal irritation and diarrhoea.
<b>Toxicity Data</b>	No specific data.

## 12 ECOLOGICAL INFORMATION

<b>Environment</b>	Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life. Undergoes ionic dissociation.
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## 13 DISPOSAL CONSIDERATIONS

<b>Waste Disposal</b>	Reuse or recycle cleaned containers where possible.
<b>Special precautions for landfill or incineration</b>	Dispose of in accordance with relevant local legislation.

## 14 TRANSPORT INFORMATION

<b>Shipping Name</b>	Non-dangerous goods				
<b>UN No.</b>	None allocated	<b>Hazchem Code</b>	None allocated	<b>Packaging Group</b>	None allocated
<b>DG Class</b>	None allocated	<b>Subsidiary Risk(s)</b>	None allocated		



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## 15 REGULATORY INFORMATION

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**Poison Schedule** A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

**AICS** All chemicals listed on the Australian Inventory of Chemical Substances (AICS).

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## 16 OTHER INFORMATION

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This Material Safety Data Sheet conforms with the National Code of Practice for the Preparation of Material Safety Data Sheets 2<sup>nd</sup> Edition [NOHSC:2011 (2003)].

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**End of MSDS**