



Spraygro Liquid Fertilizers

ABN 47 007 974 496

Material Safety Data Sheet

December 2009

PRODUCT NAME **GRIPPER MANGANESE**

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
Synonym(s) Aqueous solution of chelated copper
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	10 - 30%	
EDTA	10 - 30%	

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 This product is likely to explode in contact with alkali + hydrogen peroxide. This product may evolve ammonia and/or oxides of nitrogen and/or sulfur when heated to decomposition.
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.



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6 ACCIDENTAL RELEASE MEASURES

- Spill Response** Wear protective gear as outlined in Section 8 while cleaning spillage. Confine spillage, do not let it run into drains. Soak up with inert material.
- Waste Disposal** Comply with procedures laid down by local, state and federal governments.

7 HANDLING AND STORAGE

- Handling** 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.
- Storage** 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

- Ventilation** 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.
- PPE** 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

Appearance	pink liquid	Solubility in water	completely soluble
Odour	minor	Specific gravity	1.3 approx
pH	6 approx	% volatiles	45% approx
Vapour pressure	same as water	Flammability	not flammable
Vapour density	same as water	Flash Point	not applicable
Melting point	no data	Upper explosion limit	not applicable
Boiling point	105C	Lower explosion limit	not applicable
Evaporation rate	no data	Autoignition temperature	not applicable
Bulk density	not applicable	Decomposition temperature	no data

10 STABILITY AND REACTIVITY

- Reactivity** This product is likely to explode if mixed with alkali + hydrogen peroxide. This product may evolve ammonia and/or oxides of nitrogen and/or sulfur in a fire. This product will react with a variety of acids, alkalies and salts to form non-dangerous precipitates.
- Decomposition Products** Various depending on heat and/or exposure to other mixtures.

11 TOXICOLOGICAL INFORMATION

- Health Hazard Summary** This product is an irritant with moderate to high toxicity.
- Eye** Irritant. Exposure may result in pain and redness.
- Inhalation** Irritant. Short term exposure may result nausea, headache, pain and gastrointestinal irritation. Prolonged exposure is likely to seriously damage health.
- Skin** Irritant. Prolonged and repeated contact may result in skin rash and dermatitis.
- Ingestion** High toxicity. Ingestion of small amounts may result in nausea, vomiting, gastrointestinal irritation and diarrhoea. Large or repeated ingestion is likely to seriously damage health.
- Toxicity Data** No specific data.

12 ECOLOGICAL INFORMATION

- Environment** Do not let this product enter drains, water bodies and sewerage systems. This product may be toxic to aquatic life. Undergoes ionic dissociation. This product contains nitrogen and other nutrients which should be excluded from surface and ground water.



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13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORT INFORMATION

Shipping Name Non-dangerous goods

UN No. None allocated **Hazchem Code** None allocated **Packaging Group** None allocated

DG Class None allocated **Subsidiary Risk(s)** None allocated

15 REGULATORY INFORMATION

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).

16 OTHER INFORMATION

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

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