



Spraygro Liquid Fertilizers

ABN 47 007 974 496

Material Safety Data Sheet

January 2010

PRODUCT NAME **SMARTRACE MANGANESE COPPER**

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 chelated with lignosulfonate
Use(s) Fertilizer

2 HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO WORKSAFE AUSTRALIA

CLASSIFIED AS A SCHEDULED POISON Class 5

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%	
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.
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	dark brown liquid	Solubility in water	completely soluble
Odour	earthy	Specific gravity	1.24 approx
pH	4 – 5 approx	% volatiles	76% 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 approx	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 will also 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. Exposure may result in nausea, headache, pain and gastrointestinal irritation.

Skin Irritant. Prolonged and repeated contact may result in skin rash and dermatitis.

Ingestion Moderate toxicity. Ingestion may result in nausea, vomiting, gastrointestinal irritation and diarrhoea.

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.

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.



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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 This product is classified as a class 5 poison 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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