



Material Safety Data Sheet

MSDS No.	4161	Issue Date:	December 2010	Page:	1 of 5
Product Name:	OSMOCOTE TOPDRESS NT 22+2.2+5+TE			Version:	1.0

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	OSMOCOTE TOPDRESS NT 22+2.2+5+TE
Product Code	004161
Manufacturer	SCOTTS AUSTRALIA PTY LTD
Address	11 Columbia Way Baulkham Hills NSW 2153 Australia
Emergency Tel.	1800 033 111
Telephone/Fax Number	Tel:(02) 8853 7300 Fax:(02) 8853 7310
Recommended Use	Fertiliser
Other names	-

2. HAZARDS IDENTIFICATION

Hazard Classification Australia:
NON-DANGEROUS GOODS, NON-HAZARDOUS SUBSTANCE

New Zealand:

Classified as hazardous according to the New Zealand Hazardous Substance (Minimum Degrees of Hazard) Regulations 2001.

Not classified as dangerous goods according to the New Zealand Standard NZS: 5433:1999 Transport of Dangerous Goods on Land.

HSNO classification:

- 6.1E- Substance that is acutely toxic.
- 6.4A- Substance that is irritating to the eyes
- 6.5B- Substance that is a contact sensitizer
- 6.8B- Substance that is a reproductive or developmental toxicant.
- 6.9B- Substance that is a target organ systemic toxicant
- 9.1C- Substance that is harmful to the aquatic environment.

Hazard statement code:

- H303- May be harmful if swallowed.
- H320- Causes eye irritation.
- H317- May cause an allergic skin reaction.
- H361- Suspected of damaging fertility or the unborn child.
- H373- May cause damage to organs through prolonged or repeated oral exposure.
- H412- Harmful to aquatic life with long lasting effects

Precautionary statement codes- prevention:

- P102*- Keep out of reach of children.
- P103*- Read label before use.
- P260- Do not breath dust.
- P264- Wash hands thoroughly after handling.
- P280- Wear protective gloves.
- P261- Avoid breathing dust.
- P272- Contaminated work clothing should not be allowed out of the workplace.
- P201- Obtain special instructions before use.
- P202- Do not handle until all safety precautions have been read and understood.
- P281- Use personal protective equipment as required.
- P273- Avoid release to the environment.



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Precautionary statement codes- response

P101*-If medical advice is needed, have product container or label at hand.

P312- Call a poison centre or doctor/physician if you feel unwell.

P314- Get medical advice/attention if you feel unwell.

P305+P351+P338- IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

P337+P313- If eye irritation persists get medical advice/attention

P302+P352- IF ON SKIN: wash with plenty of soap and water.

P333+P313- If skin irritation or rash occurs: get medical advice/attention.

P363- Wash contaminated clothing before reuse.

P308+313- If exposed or concerned: get medical advice/attention.

Risk & safety phrases R52/53- Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Ingredients
	Boric acid	10043-35-3	<1%
	Copper oxide	1317-38-0	<1%
	Copper sulphate	7758-98-7	<1%
	Iron oxide	1309-37-1	<1%
	Iron sulphate	7720-78-7	<1%
	Manganese oxide	1344-43-0	<1%
	Manganese sulphate	7785-87-7	<1%
	Sulphur	7704-34-9	1-5%
	Magnesium oxide	1309-48-4	<1%
	Calcium sulphate dihydrate	10101-41-4	<1%
	Ammonium nitrate	6484-52-2	10-25%

4. FIRST AID MEASURES

General Information	If poisoning occurs, contact a doctor or poisons information centre Phone Australia 13 11 26. Phone New Zealand 0800 POISON (0800 764 766).
Inhalation	In case of shortness of breath, give oxygen. Possible symptoms are coughing and/or dyspnoea. Move to fresh air. If symptoms persist, call a doctor or poisons information centre.
Ingestion	Do not induce vomiting without medical advice. If a person vomits when lying on his back, place him in the recovery position. Never give anything by mouth to an unconscious person. In case of respiratory difficulties practice oxygenotherapy. Possible symptoms are nausea and/or vomiting.
Skin	If a person feels unwell or symptoms of skin irritation appear, consult a doctor.
Eye	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use dry chemical, CO2, water spray or "alcohol" foam.
Hazards from Combustion Products	Thermal decomposition can lead to release of irritating gases and vapours.
Special Protective Equipment for fire fighters	Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Ensure adequate ventilation. Avoid dust formation. Use personal protective equipment. Prevent product from entering drains. Do not contaminate surface water. Shovel or sweep up. Do not create a powder cloud by using a brush or compressed air.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Keep away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs.
Conditions for Safe Storage	Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well. Keep at temperatures between 0°C and 40°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	The exposure standard for dust not otherwise specified is 10 mg/m ³ (for inspirable dust) and 3 mg/m ³ (for respirable dust). The limit applies to both Australia and New Zealand. Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:			
	Substance	TWA	STEL	
		ppm	mg/m ³	ppm
	Iron salts, soluble (as Fe)	-	1	-
	Iron oxide (fume) (as Fe)	-	5	-
	Magnesium oxide (fume)	-	10	-
	New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:			
	Substance	TWA	STEL	
		ppm	mg/m ³	ppm
	Iron salts, soluble (as Fe)	-	1	-
	Iron oxide (fume) (as Fe)	-	5	-
	Magnesium oxide (fume)	-	10	-
Biological Limit Values	No biological limit allocated.			
Engineering Controls	Ensure adequate ventilation.			
Respiratory Protection	Not applicable			
Hand Protection	PVC or other plastic material gloves.			
Skin/body Protection	Usual safety precautions while handling the product will provide adequate protection against this potential effect.			
Eye/face protection	Safety glasses.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Dark grey, brownish granules.
Odour	No significant odour.
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Partially soluble
pH Value	Not available
Vapour Pressure	Not applicable
Vapour Density (Air=1)	Not applicable
Bulk Density	800-1000kg/m ³
Electrical conductivity	Not available
Flashpoint	Not flammable
Flammable Limits	Not flammable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
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Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid	Combustible material.
Hazardous Decomposition Products	No decomposition if stored normally. Thermal decomposition can lead to release of irritating gases and vapours.

11. TOXICOLOGICAL INFORMATION

Inhalation	May cause sensitization by inhalation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Skin	May cause skin irritation in susceptible persons.
Eye	Contact with eyes may cause irritation.
Component information	<i>Boric acid, H3BO3</i> LD50/oral/rat > 3500 mg/kg
	<i>Copper sulphate, CuSO4</i> LD50/oral/rat 960 mg/kg
	<i>Iron sulphate, FeSO4+1H2O</i> LD50/oral/rat 1389 mg/kg
	<i>Manganese sulphate, MnSO4</i> LD50/oral/rat 9 g/kg
	<i>Ammonium nitrate, NH4NO3</i> LD50/oral/rat 410 mg/kg
	<i>Sulphur, S</i> LD50/oral/rat > 2000 mg/kg LD50/dermal/rat > 2000 mg/kg LC50/inhalation/4h/rat > 5.4 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity	Component information <i>Copper sulphate, CuSO4</i> EC50/48h/daphnia = 0.8 mg/L
	<i>Iron sulphate, FeSO4+1H2O</i> EC50/48h/daphnia = >100mg/L LC50/96h/rainbow trout = >72.5mg/l (6d) EC50/72h/algae = 22mg/L
	<i>Manganese sulphate, MnSO4</i> EC50/48h/daphnia => 100 mg/L
	<i>Ammonium nitrate, NH4NO3</i> EC50/48h/daphnia = 100 µg/L LC50/96h/rainbow trout = 10 mg/L EC50/72h/algae = 74000 µg/L
Persistence / Degradability	Inherently biodegradable
Environ. Protection	Do not contaminate waterways with product or empty packaging.



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13. DISPOSAL CONSIDERATIONS

Disposal Considerations Use up product completely. Packaging material is industrial waste.
Empty containers can be landfilled, when in compliance with the local regulations.

14. TRANSPORT INFORMATION

Transport Information Not classified as dangerous goods according to the Australia Dangerous Goods Code for road and rail transport, the IMDG Code for marine transport or the IATA regulations for air transport.

15. REGULATORY INFORMATION

Regulatory Information Not classified as hazardous according to criteria of Safe Work Australia.
New Zealand:
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
HSNO approval code: HSR005271, Fertilisers (Subsidiary risk) Group Standard

Poisons Schedule Unscheduled

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Created: December 2010

Contact Person/Point Scotts Australia Pty Ltd
11 Columbia Way
Baulkham Hills NSW 2153
Phone (02) 8853 7300
Fax (02) 8853 7310
Emergency phone 1800 033 111
...End Of MSDS...

New Zealand:
180c Great South Rd
Takanini, Auckland
Phone (09) 299 6558
Fax (09) 296 0186
Emergency phone 0800 734 607