



Material Safety Data Sheet

MSDS No.	886900	Issue Date : June 2009	Issued by Scotts Australia Pty Ltd
Product Name:	OSMOCOTE EXACT PROTECT 12-14MTH		

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	OSMOCOTE EXACT PROTECT 12-14MTH
Product Code	886900
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

2. HAZARDS IDENTIFICATION

Hazard Classification Australia:
DANGEROUS GOODS, NON-HAZARDOUS SUBSTANCE

New Zealand:

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

Classified as dangerous goods according to the New Zealand Standard NZS: 5433:1999 Transport of Dangerous Goods on Land.

HSNO classification:

- 6.3B- Substance that is mildly irritating to the skin.
- 6.4A- Substance that is irritating to the eyes
- 6.5B- Substance that is a contact sensitizer
- 9.1C- Substance that is harmful to the aquatic environment
- 9.2C- Substance that is harmful to the soil environment
- 9.3C- Substance that is harmful to terrestrial vertebrates

Hazard statement code:

- H316- Causes mild skin irritation.
- H320- Causes eye irritation.
- H317- May cause an allergic skin reaction.
- H412- Harmful to aquatic life with long lasting effects
- H423- Harmful to the soil environment.
- H433- Harmful to terrestrial vertebrates

Precautionary statement codes- prevention:

- P103*- Read label before use.
- 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.

Precautionary statement codes- response

- P332+P313- If skin irritation occurs: get medical advice/attention.
- 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
- P303+P352- IF ON SKIN (or hair): wash with plenty of soap and water.
- P333+P313- If skin irritation or rash occurs: get medical advice/attention.



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P363- Wash contaminated clothing before reuse.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Ingredients
	Zinc sulphate monohydrate	7446-19-7	<1%	
	Sodium molybdate	7631-95-0	<1%	
	Boric acid	10043-35-3	<1%	
	Iron sulphate	7720-78-7	<1%	
	Ammonium nitrate	6484-52-2	>25%	
	Copper sulphate	7758-98-7	<1%	
	Magnesium oxide	1309-48-4	1-5%	
	Potassium nitrate	7757-79-1	10-25%	
	Manganese sulphate	7785-87-7	<1%	

4. FIRST AID MEASURES

General advice	If poisoning occurs, contact a doctor or poisons information centre on 13 11 26 (Australia) or 0800 764 766 (New Zealand).
Inhalation	Dusty conditions are unlikely if product is used as intended. However, if prolonged inhalation of dust occurs, remove casualty to fresh air. If symptoms persist, call a physician.
Ingestion	If conscious, drink plenty of water. Do not induce vomiting. Rinse mouth. Consult a physician if necessary.
Skin	If a person feels unwell or symptoms of skin irritation appear, consult a physician.
Eye	Flush eyes with water as a precaution. If eye irritation persists, consult a specialist.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water
Unsuitable Extinguishing Media	Dry powder, sand, foam, CO ₂
Hazards from Combustion Products	Danger of toxic gases in smoke in case of fire. In case of fire, the product will smoulder even without the presence of external oxygen. In these conditions the product will show self sustaining decomposition. The best method to extinguish the fire is to cool the decomposition front with water.
Special Protective Equipment for fire Fighters	In the event of fire and/or explosion do not breathe fumes. Wear self contained breathing apparatus for fire fighting if necessary.
Hazchem Code	1Z

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Avoid dust formation. Sweep-up to prevent slipping hazard. Prevent product from entering drains. Do not contaminate surface water. Shovel or sweep up.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid dust formation. Keep away from flammable material. When using do not eat or drink.
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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Work Safe Australia Exposure Standards:				
	Substance	TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
	Iron salts, soluble as Fe	-	1	-	-



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Magnesium oxide (fume)	-	10	-	-
New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:				
Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Iron salts, soluble				
As Fe	-	1	-	-
Magnesium oxide (fume)	-	10	-	-

The exposure standard for dust not otherwise specified is 10 mg/m³ (for inspirable dust) and 3 mg/m³ (for respirable dust). The limit applies to both Australia and New Zealand.

Biological Limit Values	None allocated.
Engineering Controls	Ensure adequate ventilation.
Respiratory Protection	Not applicable
Hand Protection	PVC or other plastic material gloves.
Eye Protection	Safety glasses.
Body Protection	Not applicable.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Solid brown and greenish granules
Odour	No significant odour
Melting Point	Not available
Boiling Point	Not available
Solubility in Water	Coating not soluble, nutrients release through coating.
pH Value	Not available
Vapour Pressure	Not available
Vapour Density (Air=1)	Not available
Bulk density	990-1036kg/m ³
Flashpoint	Not available
Auto-Ignition	Not available
Temperature	
Flammable Limits-Lower	Non-flammable
Flammable Limits-Upper	Non-flammable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Keep away from open flames, hot surfaces and sources of ignition.
Incompatible Materials	Oxidising and spontaneously flammable products
Hazardous Decomposition Products	No decomposition if stored normally. Hazardous decomposition products: Poisonous gasses/vapours.

11. TOXICOLOGICAL INFORMATION

Inhalation	May cause sensitization by inhalation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. LD50/oral/rat: >10g/kg
Skin	May cause skin irritation in susceptible persons.
Eye	May cause eye irritation with susceptible persons.



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12. ECOLOGICAL INFORMATION

Ecotoxicity	Component information: <i>Sodium molybdate, Na₂MoO₄+2H₂O</i> LC50/96h/rainbow trout => 2800 g/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>Ammonium nitrate, NH₄NO₃</i> EC50/48h/daphnia =100 µg/l LC50/96h/rainbow trout =10 mg/l EC50/72h/algae = 74000 µg/l <i>Copper sulphate, CuSO₄</i> EC50/48h/daphnia =0.8 mg/l <i>Manganese sulphate, MnSO₄</i> EC50/48h/daphnia => 100 mg/l
Persistence / Degradability	Degrades gradually on contact with soil.
Mobility	No information available.
Bioaccumulative Potential	No information available
Environ. Protection	Do not allow product or empty packaging to enter drains, streams or any other waterways.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations	Use up product completely. Empty containers can be landfilled, when in compliance with the local regulations.
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14. TRANSPORT INFORMATION

Transport Information	This material is classified as a Class 9 (Miscellaneous Dangerous Goods) Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. Dangerous goods of Class 9 (Miscellaneous Dangerous Goods) are incompatible in a placard load with any of the following: - Class 1, Explosive - Class 5.1, if the Class 9 substance is a fire risk substance - Class 5.2, if the Class 9 substance is a fire risk substance New Zealand: This material is classified as a Class 9 - Miscellaneous Substance according to NZS 5433:1999 Transport of Dangerous Goods on Land. Must not be loaded in the same freight container or on the same vehicle with: - Class 1, Explosives Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with: (Note 3; Segregation devices may be used as to segregate dangerous goods of Class 9 when the nature of those dangerous goods requires them to be segregated from dangerous goods of); - Class 3, Flammable liquids - Class 4.1, Flammable solids - Class 4.2, Spontaneously combustible substances - Class 4.3, Dangerous when wet substances - Class 5.1, Oxidising substances
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- Class 5.2, Organic peroxides
 - Class 6.1, Toxic substances
 - Class 6.2, Infectious substances
 - Class 8, Corrosive substances
- And are incompatible with food and food packaging in any quantity.

U.N. Number 2071
Proper Shipping Name AMMONIUM NITRATE FERTILISERS
DG Class 9
Hazchem Code 1Z
Packaging Method 3.8.9
Packing Group III
EPG Number 9E1
IERG 50

15. REGULATORY INFORMATION

Regulatory Information New Zealand:
HSNO approval no.: HSR0002571- Fertilisers (Subsidiary Hazard) Group Standard
Poisons Schedule Not a scheduled poison.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Created: June 2009

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
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