



Material Safety Data Sheet

MSDS No.	886100	Issue Date:	January 2011	Page:	1 of 5
Product Name:	OSMOCOTE EXACT HI-END 8-9 MTH			Version:	2.0

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	OSMOCOTE EXACT HI END 8-9MTH
Product Code	886100, 886700
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:
NON-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:

- 6.1E- 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 reproductive or developmental 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.
- 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.
- 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.

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.



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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 Phrases None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion	Ingredients
	Sodium molybdate	7631-95-0	<1%	
	Sodium borate	1330-43-4	<1%	
	Iron oxide	1309-37-1	<1%	
	Ammonium nitrate	6484-52-2	>25%	
	Copper sulphate	7758-98-7	<1%	
	Magnesium oxide	1309-48-4	<1%	
	Iron EDTA	239-8002-2	<1%	
	Manganese sulphate	7785-87-7	<1%	

4. FIRST AID MEASURES

General advice Possible symptoms are coughing and/or dyspnoea. 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. Rinse with plenty of water.

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, CO₂

Hazards from Combustion Products Burning produces obnoxious and toxic fumes. In case of fire, cool with water or water spray. 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.

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



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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	-	-
	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/m ³ (for inspirable dust) and 3 mg/m ³ (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 Temperature	Not available
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	No decomposition if stored normally. Hazardous decomposition products: Poisonous gasses/vapours.



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Products

11. TOXICOLOGICAL INFORMATION

Inhalation	May cause sensitization by inhalation.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. LD50/oral/rat: >10g/kg Component information: Ammonium nitrate LD50/oral/rat= 410mg/kg Copper sulphate LD50/oral/rat= 960mg/kg Manganese sulphate LD50/oral/rat= 9000mg/kg Sodium molybdate LD50/oral/rat= 4000mg/kg
Skin	May cause skin irritation in susceptible persons.
Eye	May cause eye irritation with susceptible persons.

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 not subject to the Australian Code for the Road & Rail Transport of Dangerous Goods (ADG Code). This material is classified as dangerous goods by the IMDG Code for transport over water and the IATA Regulations for air transport.
U.N. Number	2071
Proper Shipping Name	AMMONIUM NITRATE FERTILISERS



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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
MSDS amended: January 2011

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