



# Material Safety Data Sheet

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Infosafe No. LPWEW Issue Date : June 2007 ISSUED by SCOTSAU

Product Name : OSMOCOTE START

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** OSMOCOTE START  
**Product Code** 8750  
**Company Name** 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** Granulated fertiliser.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Australia:  
Not classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.  
Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.  
Not classified as Dangerous Goods for transport, according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.  
HSNO classification:  
6.1E - Substance that is mild acutely toxic.  
6.4A - Substance that is irritating to the eye.  
6.5B - Substance that is a contact sensitiser.  
6.9A - Substance that is toxic to human target organs or systems.  
9.1C - Substance that is harmful in the aquatic environment.

Hazard statement code:  
H313 May be harmful in contact with skin.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H370 Causes damage to organs.  
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.  
P104 Read Safety Data Sheet before use.  
P261 Avoid breathing dust.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear eye/face protection.

Precautionary statement codes- Response:  
P101 If medical advice is needed, have product container or label at hand.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P307+P311 IF exposed: Call a POISON CENTER or doctor/physician.  
P312 Call a POISON CENTER or doctor/physician 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.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
P363 Wash contaminated clothing before reuse.

Precautionary statement codes - Storage:  
P405 Store locked up.

Precautionary statement codes - Disposal:  
P501 In the case of a substance that is in compliance with a HSNO approval



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other than a Part 6A (Group Standards) approval, a label must provide a description of one or more appropriate and achievable methods for the disposal of a substance in accordance with the Hazardous Substances (Disposal) Regulations 2001. This may also include any method of disposal that must be avoided.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Ammonium Nitrate	6484-52-2	10-30 %
	Magnesium oxide	1309-48-4	0-5 %
	Manganese (II) sulphate monohydrate	7785-87-7	0-5 %
	Copper sulphate	7758-98-7	0-5 %
	Iron (II) Sulfate	7720-78-7	0-5 %
	Other ingredients determined not to be hazardous		Balance to 100%

### 4. FIRST AID MEASURES

<b>Inhalation</b>	If prolonged inhalation of dust occurs, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.
<b>Ingestion</b>	Wash out mouth with water. If irritation develops and persists seek medical attention.
<b>Skin</b>	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
<b>Eye</b>	If contact with the eye(s) occurs, wash with copious amounts of water holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek medical attention.
<b>First Aid Facilities</b>	Normal wash room facilities.
<b>Advice to Doctor</b>	Treat symptomatically.

### 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Use water
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes including carbon monoxide and carbon dioxide.
<b>Specific Hazards</b>	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.
<b>Precautions in connection with Fire Unsuitable Extinguishing Media</b>	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Dry powder, Sand, Foam, CO2

### 6. ACCIDENTAL RELEASE MEASURES

<b>Emergency Procedures</b>	Sweep up material avoiding dust generation or dampen spilled material with water to avoid airborne dust, and then transfer material to a suitable container. Use absorbent paper dampened with water to pick up remaining material. Wash surfaces well, with soap and water. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. Dispose of waste according to federal, Environmental Protection Authority and state regulations. If the spillage enters the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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### 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Avoid generating dust. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking,
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smoking or using the toilet.  
**Conditions for Safe Storage** Store in a cool dry place, out of moisture. Keep containers closed when not in use. Store in suitable, labelled containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards** Australian National Occupational Health And Safety Commission (NOHSC) Exposure Standards:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Magnesium oxide (fume)	-	10	-	-

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards:

Substance	TWA		STEL	
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Magnesium oxide (fume)	-	10	-	-

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

**Biological Limit Values** No biological limit allocated.

**Engineering Controls** Use with good general ventilation. If dusts are produced local exhaust ventilation should be used.

**Respiratory Protection** Not required. During industrial applications: Where ventilation is inadequate the use of an Air Purifying Respirator with a Organic Vapour filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended.

**Eye Protection** Not normally required. During industrial applications: The use of chemical goggles or safety glasses with side shield protection is recommended. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection** Where skin contact is likely to be prolonged or repeated impervious PVC or nitrile rubber gloves are recommended.

**Body Protection** Overalls or similar protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** Brown, greenish, coated granules.

**Odour** Not available.

**Melting Point** Not available.

**Boiling Point** Not applicable.

**Solubility in Water** Coating not soluble, release nutrients through coating.

**Specific Gravity** Not available.

**pH Value** Not available.

**Vapour Pressure** Not applicable.

**Vapour Density (Air=1)** Not applicable.

**Density** Bulk: 1057 kg/m<sup>3</sup>

**Flash Point** Not applicable.

**Auto-Ignition Temperature** Not available.

**Flammable Limits - Lower** Not applicable.

**Flammable Limits - Upper** Not applicable.

## 10. STABILITY AND REACTIVITY

**Chemical Stability** Stable under normal conditions of use.

**Conditions to Avoid** Heat, direct sunlight, open flames or other sources of ignition.



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**Incompatible Materials** Combustibles.  
**Hazardous Decomposition Products** No decomposition if stored correctly. Hazardous decomposition products may include poisonous gasses/vapours.  
**Hazardous Polymerization** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Toxicology Information** LD50 (oral, rat): >10000 mg/kg  
**Inhalation** Inhalation of dust may cause irritation to the mucous membrane and upper airways.  
**Ingestion** Not a likely source of exposure. May cause irritation to the mouth, oesophagus and stomach.  
**Skin** Skin contact may cause mechanical irritation resulting in redness and itching.  
**Eye** Eye contact may cause mechanical irritation. May result in mild abrasion.  
**Chronic Effects** Prolonged or repeated skin contact may cause defatting leading to dermatitis.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Ironsulphate:  
EC50/48h/daphnia = >100mg/l  
LC50/96h/rainbow trout = >72.5mg/l (6d)  
EC50/72h/algae = 22mg/l  
LD50/oral/rat = 1389 mg/kg  
Ammoniumnitrate:  
EC50/48h/daphnia =100 µg/l  
LC50/96h/rainbow trout =10 µg/l  
EC50/72h/algae = 74000 µg/l  
Copper sulphate:  
EC50/48h/daphnia =0.8 mg/l  
Manganese sulphate:  
EC50/48h/daphnia => 100 mg/l  
**Persistence / Degradability** No data is available for this material.  
**Mobility** No data is available for this material.  
**Environ. Protection** Avoid contaminating waterways.

## 13. DISPOSAL CONSIDERATIONS

**Disposal Considerations** Dispose of waste according to federal, EPA and state regulations.

## 14. TRANSPORT INFORMATION

**Transport Information** Australia:  
Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.  
New Zealand:  
Not classified as Dangerous Goods for transport according to the NZS 5433:1999 Transport of Dangerous Goods on Land.  
**Storage and Transport** Not classified as dangerous.

## 15. REGULATORY INFORMATION

**Regulatory Information** Australia:  
Not classified as hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC).  
New Zealand:  
Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.



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Group Standard:  
Fertilisers (Subsidiary Hazard) Group Standard 2006  
HSNO Approval Number: HSR002571

**Poisons Schedule** Not Scheduled

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## 16. OTHER INFORMATION

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**Date of preparation** MSDS created: May 2007  
**or last revision of**  
**MSDS**

**Contact Person/Point** New Zealand:  
180c Great South Rd  
Takanini, Auckland  
Phone: (09) 299 6558  
Fax: (09) 296 0186  
Emergency Tel: 0800 734 607  
...End Of MSDS...