



Material Safety Data Sheet

Page: 1 of 5

Infosafe No. LPWEW Issue Date : June 2007 ISSUED by SCOTTS AU

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



Material Safety Data Sheet

Page: 2 of 5

Infosafe No.	LPWEW	Issue Date : June 2007	ISSUED by SCOTTS AU
Product Name :	OSMOCOTE START		

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

Inhalation	If prolonged inhalation of dust occurs, remove from contaminated area. Apply artificial respiration if not breathing. If symptoms develop seek medical attention.
Ingestion	Wash out mouth with water. If irritation develops and persists seek medical attention.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Eye	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.
First Aid Facilities	Normal wash room facilities.
Advice to Doctor	Treat symptomatically.

5. FIRE FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	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.
-----------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

7. HANDLING AND STORAGE

Precautions for Safe Handling	Avoid generating dust. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking,
--------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------



Material Safety Data Sheet

Page: 3 of 5

Infosafe No. LPWEW Issue Date : June 2007 ISSUED by SCOTTS AU

Product Name : OSMOCOTE START

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 ³	ppm	mg/m ³
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
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 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/m³

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.



Material Safety Data Sheet

Page: 4 of 5

Infosafe No. LPWEW Issue Date : June 2007 ISSUED by SCOTTS AU

Product Name : OSMOCOTE START

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.



Material Safety Data Sheet

Page: 5 of 5

Infosafe No.	LPWEW	Issue Date : June 2007	ISSUED by SCOTTSAU
--------------	-------	------------------------	--------------------

Product Name : **OSMOCOTE START**

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

Poisons Schedule Not Scheduled

16. OTHER INFORMATION

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...