



## MATERIAL SAFETY DATA SHEET

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Date of Issue 16/10/01  
MSDS No. 3007

### STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

### COMPANY DETAILS

Company Scotts Australia Pty. Ltd.  
Address 11 Columbia Way, Baulkham Hills, NSW, 2153  
Telephone Number (02) 8853 7300  
Fax (02) 8853 7310  
Emergency Telephone Number Australia: 1800 033 111 New Zealand: 0800 734 607

### IDENTIFICATION

Product Name **OSMOCOTE (R)**

Other Names

Manufacturers Product Code	7604 Osmocote	14-6.1-11.6
	7602 Osmocote	18-4.8-9.1
	7605 Osmocote	19-2.6-10
	7646 Osmocote	17-4.4-10
	7606 Osmocote	18-2.6-10
	7601 Osmocote	18-4.8-8.3
	7607 Osmocote	18-2.1-9.1
	7633 Osmocote	17-4.3-8.2
	7707 Osmocote Zero P	18-0-9.3
	7684 Osmocote Tropical	19-2.5-10
	7752 Osmocote Tropical	18-2.2-9.3
	7686 Osmocote Low P	17+1.6+8.7

UN Number None allocated

Dangerous Goods Class 9

Sub-Risk Class -

Packaging Group -

Hazchem Code -

Poisons Schedule Not a Scheduled Poison.

Uses Fertilizer

### Physical Description /Properties

Appearance & Odour Mixed light and dark tan spherical prills. No odour.

Melting point/softening point Decomposes on heating

Boiling Point Decomposes on heating.

Vapour Pressure Not available

Flashpoint Decomposes on heating.

Flammability Limits Non flammable

Solubility in Water 90%

pH

Incompatibility Strong reducing agents. Active metals such as aluminium and magnesium.

Specific Gravity 1.2 (water = 1.0)

Bulk density -

Volatile Proportion Not volatile

Corrosiveness

**Ingredients**

Ingredient	Chemical Name	CAS Number	Proportion %
Active ingredients	Ammonium Nitrate	6484-52-2	<50%
	Calcium Phosphate	1306-06-5	<50%
	Ammonium Phosphates	7783-28-0	<50%
	Calcium Fluoride	7789-75-5	<10%
	Potassium Sulphate	7778-80-5	<50%
Inerts	Organic resin coating	-	<10%

**HEALTH HAZARD INFORMATION****Health Effects***Acute*

This product has low toxicity but if ingested in large amounts may cause the effects listed below.

Swallowed

Ingestion of large amounts of product can cause severe gastro-intestinal irritations.

Eye

Direct contact with uncoated fertilizer may irritate eyes.

Skin

Direct contact with uncoated fertilizer may irritate skin.

Inhaled

Inhalation of dust may irritate nose, throat and lungs although product coating makes this unlikely.

*Chronic*

Ammonium nitrate is allergen. Prolonged or repeated direct contact with fertilizer may irritate eyes and skin. Inhalation of dust may irritate nose, throat and lungs. Prolonged exposure may cause weakness, depression, headache, mental impairment, anemia, methemoglobinemia and kidney injury. Ingestion of product can cause severe gastrointestinal irritation, muscular weakness and blue-tinged skin (cyanosis). Infants and children are especially at risk for cyanosis. Ingestion of large amounts may result in death.

**First Aid**

Swallowed

Never give anything by mouth to an unconscious or convulsing person. If person is conscious, rinse mouth with water. Give water or milk to dilute material. Induce vomiting. Get medical help.

Eye

Flush thoroughly with running water for 15 minutes.

Skin

Wash with soap and water.

Inhaled

Dusty conditions are unlikely if product is used as intended and product coating remains intact. However, if prolonged inhalation of dust occurs, remove victim to fresh air. Seek medical help for further treatment, observation and support after first aid.

First Aid Facilities

Washing facilities, eyewash.

**Advice to Doctor**

Treat symptomatically.

Medical conditions

Ammonium nitrate allergies. Skin abrasions and sores. Inhalation of dust may which may be aggravated aggravate asthma.

by contact

**PRECAUTIONS FOR USE**

Exposure Standards	<p>Exposure limit standards for some of the constituents of this preparation are as follows: All exposure limits are for airborne 8-hour time-weighted averages and apply only to occupational exposures. Product coating is expected to minimise airborne exposures. The ACGIH Threshold Limit Values for nuisance (inert) dust containing &lt;1% crystalline silica and no asbestos are 10mg/m<sub>3</sub> total, 5mg/m<sub>3</sub> respirable.</p> <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Constituent:</u></th> <th style="text-align: left;"><u>mg/m<sup>3</sup> OSHA</u></th> </tr> </thead> <tbody> <tr> <td>Ammonium Nitrate</td> <td>None</td> </tr> <tr> <td>Potassium Sulfate</td> <td>None</td> </tr> <tr> <td>Ammonium Phosphate</td> <td>None</td> </tr> <tr> <td>Calcium Phosphates</td> <td>None</td> </tr> <tr> <td>Calcium Fluoride</td> <td>2.5mg/m<sub>3</sub> as F./Fed. OSHA &amp; Cal OSHA Standard, ACGIH, TLV). ACGIH Biological Exposure Indices for Fluoride in Urine: 3mg/L pre-shift, 10mg/L post-shift.</td> </tr> </tbody> </table>	<u>Constituent:</u>	<u>mg/m<sup>3</sup> OSHA</u>	Ammonium Nitrate	None	Potassium Sulfate	None	Ammonium Phosphate	None	Calcium Phosphates	None	Calcium Fluoride	2.5mg/m <sub>3</sub> as F./Fed. OSHA & Cal OSHA Standard, ACGIH, TLV). ACGIH Biological Exposure Indices for Fluoride in Urine: 3mg/L pre-shift, 10mg/L post-shift.
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Engineering Controls	<p>Ventilation: None required for routine use. Safety Stations: running water should be available in case material gets in eyes.</p>												
Personal Protection	<p>Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of product dissolved in liquid may be irritating; use chemical goggles. Gloves: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves. Respirator: If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dusts, mists or fumes.</p>												
Flammability	Non flammable.												
Other	Ingredients with occupational exposure limits comprise a small percentage of total product. For this reason, it is not expected that these limits will be exceeded unless the nuisance dust standards are exceeded.												

**SAFE HANDLING INFORMATION**

Storage and Transport	Store in a cool, dry area away from incompatible materials such as aluminium and magnesium. Store away from feed and foodstuffs.
Spills and Disposal	<p>If material is uncontaminated, collect and re-use as recommended for product. If contaminated, put in appropriate container and dispose. Keep spills away from drinking water supplies. After cleaning up spill, flush area with water.</p> <p>Waste Management/Disposal: Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state and local regulations.</p>

Fire/Explosion Hazard     Extinguishing Media: Water.  
Unusual Fire and Explosion Hazards: Decomposes on heating to emit toxic ammonia and oxides of nitrogen, phosphorus and sulfur. High airborne dust concentrations have potential for explosion.  
Special Fire Fighting procedures: Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus to fight large fires.  
Reactivity Data:  
Stability: Stable.  
Conditions to Avoid: Extreme heat. Contact with fuels and other organic or combustible materials. Strong reducing agents. Active metals such as aluminium and magnesium.  
Hazardous decomposition products: Ammonia and oxides of nitrogen, phosphorus and sulfur.  
Hazardous polymerization cannot occur. Avoid contact with reducing agents.

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**OTHER INFORMATION**


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Environmental Protection     Keep out of lakes, streams, ponds and waterways.  
Animal Toxicity Data

Bioaccumulation     Will not bioaccumulate.  
Degradation     The product will degrade on exposure to soil, moisture and sunlight.

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**CONTACT POINT**


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Emergency Response for Transport and Exposure	Scotts Australia Pty Ltd
Australia: 1800 033 011	11 Columbia Way
New Zealand: 0800 734 607	Baulkham Hills NSW 2153
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