



## MATERIAL SAFETY DATA SHEET

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MSDS No. 1037

### STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to the 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® PLUS CONTROLLED RELEASE FERTILIZER**  
Other Names  
Manufacturers Product Code  
117520, 117720, 117220 16-3.5-10+TE Osmocote Plus Azalea, Camellia and Rhododenrons  
117530, 117730, 117230 16-3.5-10+TE Osmocote Tree Shrub and Citrus  
117540, 117740, 117240 16-4.4-10+TE Osmocote Plus Garden Beds  
117570, 117770, 117270 15-5.2-10+TE Osmocote Plus Roses Super Feeder  
117510, 117710, 117210 15-4.4-10+TE Osmocote Plus Pots, Planters Indoors  
117560, 117760, 117260 17-1.6-8.6+TE Osmocote Plus Low P (Native Gardens)  
117330, 107520 Osmocote Outdoor  
UN Number  
Dangerous Goods Class Not a Dangerous Good  
Sub-Risk Class  
Packaging Group  
Hazchem Code  
Poisons Schedule None  
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 known  
Flashpoint Decomposes on heating  
Flammability Limits Not applicable  
Solubility in Water 80-85%  
pH  
Incompatibility  
Specific Gravity 1.1 (water = 1.0)  
Bulk density  
Volatile Proportion  
Corrosiveness

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**Ingredients**

Ingredient	Chemical Name	CAS Number	Proportion g/kg
Active ingredients	Ammonium Nitrate	6484-52-2	
	Calcium Phosphate	7758-23-8/7757-93-9/7758-87-4	
	Ammonium Phosphates	7783-28-0/7722-76-1	
	Calcium Fluoride	7789-75-5	
	Magnesium Sulfate	10034-99-8/7487-88-9	
	Potassium Nitrate	7757-79-1	
	Boric Acid	10043-35-3	
	Copper Sulphate	7758-98-7	
	Iron Sulphate	7782-63-0	
	Iron EDTA	15708-41-5	
	Manganese Sulfate	7785-87-7	
	Sodium Molybdate	7631-95-0	
	Zinc Sulfate	7733-02-0	
Zinc Oxide	1314-13-2		
Inerts	Alkyd Resin coating		

**HEALTH HAZARD INFORMATION**

**Health Effects**

*Acute*

Swallowed Ingestion can lead to gastro-intestinal disturbances.

Eye

Skin

Inhaled

*Chronic*

Ammonium nitrate is an 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 sever 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.

Inhalation of heavy concentrations of manganese-containing dusts over very prolonged periods of exposure (usually 1 to 3 years) has been reported to cause damage to the central nervous system.

**First Aid**

Swallowed Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2 glasses of water, then induce repeated vomiting until vomit is clear. Call physician.

Eye If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.

Skin Wash with plenty of soap and water.

Inhaled Remove to fresh air. Treat symptomatically.

First Aid Facilities

**Advice to Doctor**

Medical conditions which may be aggravated by contact Skin abrasions and sores. Inhalation of dust may aggravate asthma.

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### PRECAUTIONS FOR USE

**Exposure Standards** 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 minimize airborne exposures. The ACGIH Threshold Limit Values for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are: 10mg/m<sup>3</sup> total, 5mg/m<sup>3</sup> respirable.

<u>Constituent:</u>	<u>mg/m<sup>3</sup> OSHA</u>
Ammonium Nitrate	None
Ammonium Phosphates	None
Calcium Phosphates	None
Calcium Fluoride	2.5mg(F)/m <sup>3</sup>
Potassium Nitrate	None
Magnesium Sulfate	None
Boric Acid	None
Copper Sulfate	None
Iron Sulfate	1mg/(Fe)m <sup>3</sup>
Iron EDTA	None
Manganese Sulfate	5mg/(Mn)m <sup>3</sup>
Sodium Molybdate	5mg/(Mo)m <sup>3</sup>
Zinc Sulfate	None
Zinc Oxide	5mg/m <sup>3</sup>

**Engineering Controls**  
**Personal Protection**

**Goggles:** None required for routine use as fertilizer. High airborne dust levels or mists of products 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 product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists and fumes) to reduce exposures to acceptable levels.

**Ventilation:** Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.

Workplace Considerations:

**Ventilation:** Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.

**Safety Stations:** Running water should be available in case material gets in eyes.

**Other:** Ingredients with occupational exposure limits comprise a small percentage of the total product. For this reason, it is not expected that these limits will be exceeded unless the nuisance dust standards are exceeded.

**Flammability**

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### SAFE HANDLING INFORMATION

Storage and Transport	Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children.
Spills and Disposal	Avoid dusting or misting conditions during cleanup. 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. 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.
Fire/Explosion Hazard	<u>In Case of Fire:</u> Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus to fight large fires. Unusual Fire, Explosion and Reactivity Hazards: Decomposes on heating to emit toxic oxides of nitrogen, phosphorus, potassium and sulfur, as well as ammonia. High airborne dust concentrations have the potential for explosion. Stability: Stable Hazardous Polymerization: Will not occur. Conditions to Avoid: Extreme heat. Contact with strong alkalies, oxidizers and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Hazardous Decomposition Products: In a fire, may produce oxides of nitrogen, phosphorus, potassium and sulfur, as well as ammonia. Extinguishing Media: Water. Chemical Incompatibilities: Strong oxidizing (permanganate, dichromate, nitrate, chlorine) and reducing agents, sodium nitrite and many chlorine compounds (including household bleach and other cleaning products). Active metals such as aluminum and magnesium.

### OTHER INFORMATION

Environmental  
Protection  
Animal Toxicity Data

### CONTACT POINT

Emergency Response for Transport and Exposure Australia: 1800 033 111 New Zealand: 0800 734 607	Scotts Australia Pty Ltd 11 Columbia Way Baulkham Hills NSW 2153 Phone (02) 8853 7300 Fax (02) 8853 7310
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