



MATERIAL SAFETY DATA SHEET

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MSDS No. 3011

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS

Company	Scotts Australia Pty. Ltd.	
Address	Australia: 11 Columbia Way Baulkham Hills, NSW, 2153	New Zealand: 180c Great South Rd Takanini, Auckland
Telephone Number	(02) 8853 7300	(09) 299 6558
Fax	(02) 8853 7310	(09) 296 0186
Emergency Telephone Number	Australia: 1800 033 111	New Zealand: 0800 734 607

IDENTIFICATION

Product Name	OSMOCOTE® PLUS CONTROLLED RELEASE FERTILISER	
Other Names	Osmocote Plus Low P Osmocote Plus Azalea Special	
Manufacturers Product Code	7762 Osmocote Plus Low P	17-1.6-8.7+TE
	7770 Osmocote Plus Low P	17-1.5-8.5+TE
	5080 Osmocote Plus Azalea Special	21-2.5-7+TE
UN Number	None allocated	
Dangerous Goods Class	Not a Dangerous Good	
Sub-Risk Class	N/A	
Packaging Group	-	
Hazchem Code	-	
Poisons Schedule	Not a Scheduled Poison	
Uses	Fertiliser	

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	Not volatile
Volatile Proportion	
Corrosiveness	

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Ingredients

Ingredient	Chemical Name	CAS Number	Proportion %
Active ingredients	Ammonium Nitrate	6484-52-2	<50%
	Calcium Phosphates	7758-23-8/7757-93-9/7758-87-4	<10%
	Ammonium Phosphates	7783-28-0/7722-76-1	<10%
	Calcium Fluoride	7789-75-5	<10%
	Magnesium Sulfate	10034-99-8/7487-88-9	<10%
	Potassium Nitrate	7757-79-1	<20%
	Boric Acid	10043-35-3	<1%
	Copper Sulphate	7758-98-7	<1%
	Iron Sulphate	7782-63-0	<2%
	Iron EDTA	15708-41-5	<2%
	Manganese Sulfate	7785-87-7	<2%
	Sodium Molybdate	7631-95-0	<2%
	Zinc Sulfate	7733-02-0	<2%
	Zinc Oxide	1314-13-2	<2%
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 can lead to gastro-intestinal disturbances.

Eye May cause eye irritation.

Skin May cause skin irritation.

Inhaled May cause irritation to the throat and lungs.

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 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.

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.

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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	Washing facilities, eye wash.
Advice to Doctor	Treat symptomatically.
Medical conditions which may be aggravated by contact	Skin abrasions and sores. Inhalation of dust may aggravate asthma.

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 minimize airborne exposures. The ACGIH Threshold Limit Values for nuisance (inert) dusts containing <1% crystalline silica and no asbestos are: 10mg/m³ total, 5mg/m³ respirable.</p> <table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;"><u>Constituent:</u></th> <th style="text-align: right;"><u>mg/m³ OSHA</u></th> </tr> </thead> <tbody> <tr><td>Ammonium Nitrate</td><td style="text-align: right;">None</td></tr> <tr><td>Ammonium Phosphates</td><td style="text-align: right;">None</td></tr> <tr><td>Calcium Phosphates</td><td style="text-align: right;">None</td></tr> <tr><td>Calcium Fluoride</td><td style="text-align: right;">2.5mg(F)/m³</td></tr> <tr><td>Potassium Nitrate</td><td style="text-align: right;">None</td></tr> <tr><td>Magnesium Sulfate</td><td style="text-align: right;">None</td></tr> <tr><td>Boric Acid</td><td style="text-align: right;">None</td></tr> <tr><td>Copper Sulfate</td><td style="text-align: right;">None</td></tr> <tr><td>Iron Sulfate</td><td style="text-align: right;">1mg/(Fe)m³</td></tr> <tr><td>Iron EDTA</td><td style="text-align: right;">None</td></tr> <tr><td>Manganese Sulfate</td><td style="text-align: right;">5mg/(Mn)m³</td></tr> <tr><td>Sodium Molybdate</td><td style="text-align: right;">5mg/(Mo)m³</td></tr> <tr><td>Zinc Sulfate</td><td style="text-align: right;">None</td></tr> <tr><td>Zinc Oxide</td><td style="text-align: right;">5mg/m³</td></tr> </tbody> </table>	<u>Constituent:</u>	<u>mg/m³ OSHA</u>	Ammonium Nitrate	None	Ammonium Phosphates	None	Calcium Phosphates	None	Calcium Fluoride	2.5mg(F)/m ³	Potassium Nitrate	None	Magnesium Sulfate	None	Boric Acid	None	Copper Sulfate	None	Iron Sulfate	1mg/(Fe)m ³	Iron EDTA	None	Manganese Sulfate	5mg/(Mn)m ³	Sodium Molybdate	5mg/(Mo)m ³	Zinc Sulfate	None	Zinc Oxide	5mg/m ³
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Engineering Controls	Ensure adequate ventilation.																														

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Personal Protection	<p>Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.</p> <p>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.</p> <p>Gloves: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.</p> <p>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.</p> <p>Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.</p>
Flammability	<p>The product is not flammable.</p>

SAFE HANDLING INFORMATION

Storage and Transport	<p>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.</p>
Spills and Disposal	<p>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.</p> <p><u>Waste Management/Disposal:</u> 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	<p><u>In Case of Fire:</u> Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus to fight large fires.</p> <p><u>Unusual Fire, Explosion and Reactivity Hazards:</u> 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.</p> <p><u>Stability:</u> Stable</p> <p><u>Hazardous Polymerization:</u> Will not occur.</p> <p><u>Conditions to Avoid:</u> Extreme heat. Contact with strong alkalis, oxidizers and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium.</p> <p><u>Hazardous Decomposition Products:</u> In a fire, may produce oxides of nitrogen, phosphorus, potassium and sulfur, as well as ammonia.</p> <p><u>Extinguishing Media:</u> Water.</p> <p><u>Chemical Incompatibilities:</u> 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.</p>

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OTHER INFORMATION

Environmental Protection	Keep out of lakes, ponds, streams and other waterways.
Animal Toxicity Data	Oral LD50 (rat): greater than 20mg/kg.
Bioaccumulation	Will not bioaccumulate.
Degradation	The product will degrade on exposure to soil, moisture and sunlight.

CONTACT POINT

Scotts Australia Pty Ltd
11 Columbia Way
Baulkham Hills NSW 2153
Phone (02) 8853 7300
Fax (02) 8853 7310

24 hour Emergency Response for Transport and Exposure
Australia: 1800 033 111

New Zealand:
180c Great South Rd
Takanini, Auckland
Phone (09) 299 6558
Fax (09) 296 0186
New Zealand: 0800 734 607