



# Material Safety Data Sheet

MSDS No.	228140i	Issue Date:	July 2010	Page:	1 of 4
Product Name:	<b>OSMOCOTE PLUS TRACE ELEMENTS ROSES, GARDENIAS, AZALEAS &amp; CAMELLIAS</b>			Version:	1.0

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product name</b>	OSMOCOTE PLUS TRACE ELEMENTS ROSES, GARDENIAS, AZALEAS & CAMELLIAS		
<b>Product code</b>	118125, 1182325, 1185325, 118625, 118725		
<b>Manufacturer</b>	SCOTTS AUSTRALIA PTY LTD		
<b>Address</b>	Australia: 11 Columbia Way Baulkham Hills NSW 2153	New Zealand: 180c Great South Rd Takanini Auckland	
<b>Emergency telephone</b>	1800 033 111	0800 734 607	
<b>Telephone/fax number</b>	Tel: (02) 8853 7300 Fax: (02) 8853 7310	Tel: (09) 299 6558 Fax: (09) 296 0186	
<b>Recommended use</b>	Fertiliser		

## 2. HAZARDS IDENTIFICATION

<b>Hazard classification</b>	NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS.
<b>Risk &amp; safety phrases</b>	None allocated

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS	Proportion of ingredients
Urea	57-13-6	30-60%
Potassium sulphate	7778-80-5	10-30%
Ammonium nitrate	6484-52-2	<10%
Monoammonium phosphate	7722-76-1	<10%
Sulphur	7704-34-9	<10%
Iron sulphate	7720-78-7	<10%
Magnesium sulphate	7487-88-9	<10%
Magnesium oxide	1309-48-4	<10%
Ammonium sulphate	7783-20-2	<1%
Calcium phosphate	10103-46-5	<1%
Calcium sulphate	7778-18-9	<1%
Iron EDTA	15275-07-7	<1%
Iron oxide	1309-37-1	<1%
Manganese sulphate	7785-87-7	<1%
Copper sulphate	7758-98-7	<1%
Zinc sulphate	7733-02-0	<1%
Sodium borate	1303-96-4	<1%
Sodium molybdate	7631-95-0	<1%
Ingredients considered not to be hazardous	-	10-30%

## 4. FIRST AID MEASURES

<b>Inhalation</b>	Move person to fresh air. If person is not breathing, call 000 for an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poisons information centre or doctor for further treatment advice. Phone Australia 13 11 26 or New Zealand 0800 764 766. Possible symptoms are coughing and/or dyspnoea.
<b>Ingestion</b>	Call a poisons information centre or doctor immediately for treatment advice. Phone Australia 13 11 26 or New Zealand 0800 764 766. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poisons information centre or doctor. Do not give anything by mouth to an unconscious person.



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**Skin** Possible symptoms are nausea and/or vomiting. Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poisons information centre or doctor for treatment advice. Phone Australia 13 11 26 or New Zealand 0800 764 766.

**Eye** Hold eye open and rinse slowly and gently with water for 15-20 minutes, also under the eyelids. Remove contact lenses, if present after the first 5 minutes, then continue rinsing eye. Call a poisons information centre or doctor for further treatment advice. Phone Australia 13 11 26 or New Zealand 0800 764 766.

**First aid facilities** Water, wash facilities

## 5. FIRE FIGHTING MEASURES

**Suitable extinguishing media** Water spray. Select appropriate method to surround and extinguish fire.

**Hazards from combustion products** Decomposes on heating. Combustion can produce toxic fumes and irritating gases. Dust clouds may be explosive.

**Special protective precautions and equipment for fire fighters** In the event of fire, wear self-contained breathing apparatus.

**Hazchem code** None allocated.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures** Ensure adequate ventilation. Wear personal protective equipment. Prevent product from entering drains and surface water.

**Methods and materials for containment and cleanup** Use good housekeeping practices. Clean up promptly by sweeping or vacuum. Do not create a powder cloud by using a brush or compressed air. If material is uncontaminated, collect and reuse as recommended for product.

## 7. HANDLING AND STORAGE

**Precautions for safe handling** Avoid container breakage. Wash hands after use and before eating, drinking, smoking or using the toilet. Keep away from open flames, hot surfaces and sources of ignition.

**Conditions for safe Storage** Keep away from heat and sources of ignition. Keep away from food, drink and animal feeding stuffs. For quality reasons: Keep out of reach of direct sunlight, Keep containers tightly closed in a cool, well-ventilated place. Keep at temperatures between 0°C and 40°C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National exposure standards	Safe Work Australia Exposure Standards:				
	Substance	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>
	Iron salts, soluble (as Fe)	-	1	-	-
	Iron oxide fume (Fe <sub>2</sub> O <sub>3</sub> ) (as Fe)	-	5	-	-
	Disodium tetraborate decahydrate, Borax	-	5	-	-
	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** None allocated.

**Engineering controls** Use adequate ventilation to keep the airborne concentrations of this material below the



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<b>Respiratory protection</b>	recommended exposure standards. If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection, e.g., Australian Standard approved respirator for dusts, mists, and fumes.
<b>Skin protection</b>	Wear suitable protective clothing if contact is anticipated during manufacturing. PVC or other plastic material gloves.
<b>Eye protection</b>	Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid brown and red granules
<b>Odour</b>	Fertiliser odour
<b>pH value</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Vapour density (Air=1)</b>	Not available
<b>Boiling point</b>	Not available
<b>Melting point</b>	Not available
<b>Solubility in water</b>	Partially soluble.
<b>Bulk density/specific gravity</b>	Not available
<b>Flashpoint</b>	Not available
<b>Auto-ignition temperature</b>	Not available
<b>Flammable limits-lower</b>	Not flammable
<b>Flammable limits-upper</b>	Not flammable

## 10. STABILITY AND REACTIVITY

<b>Chemical stability</b>	Stable under normal conditions of use and storage.
<b>Conditions to avoid</b>	Keep away from open flames, hot surfaces and sources of ignition, damp or wet conditions.
<b>Incompatible materials</b>	Oxidizing agents, metals, bases, combustible materials.
<b>Hazardous decomposition products</b>	No decomposition if stored normally. Thermal decomposition can lead to toxic fumes and gases being generated. Metal oxides possible.
<b>Hazardous reactions</b>	Poses little or no immediate hazard.

## 11. TOXICOLOGICAL INFORMATION

<b>General</b>	Low toxicity for humans and animals.
<b>Inhalation</b>	May cause sensitization by inhalation.
<b>Ingestion</b>	Ingestion may cause gastro-intestinal irritation, nausea, vomiting and diarrhoea.
<b>Skin</b>	May cause skin irritation and/or dermatitis in susceptible persons.
<b>Eye</b>	Contact with eyes may cause irritation.
<b>Chronic effects</b>	Not listed as a carcinogen.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	No data is available on the product itself.
<b>Persistence and degradability</b>	Inherently biodegradable. Non-persistent.
<b>Mobility</b>	Water contaminating.



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**Bioaccumulative potential** Does not bioaccumulate.  
**Environmental protection** May be beneficial to plant life.  
Do not allow product or empty containers to enter waterways.

### 13. DISPOSAL CONSIDERATIONS

**Disposal methods and containers** Use up product completely. Dispose of in accordance with local regulations and national regulations. Do not re-use empty containers. If empty, place in rubbish bin or offer for recycling if available.  
**Special precautions for landfill/incineration** None known.

### 14. TRANSPORT INFORMATION

**Transport information** Not classified as dangerous goods according to the Australian Dangerous Goods Code for transport by road and rail.

### 15. REGULATORY INFORMATION

**Regulatory information** Not classified as a scheduled poison according to the SUSMP.  
**Poisons schedule** Not a scheduled poison.

### 16. OTHER INFORMATION

**Date of preparation or last revision of MSDS** MSDS Created: July 2010

**Contact point**

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