



Material Safety Data Sheet

MSDS No.	228160i	Issue Date:	October 2010	Page:	1 of 5
Product Name:	OSMOCOTE PLUS TRACE ELEMENTS VEGETABLE, TOMATO, HERB & GARDEN BEDS			Version:	2.0

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name	OSMOCOTE PLUS TRACE ELEMENTS VEGETABLE, TOMATO, HERB & GARDEN BEDS	
Product code	118145, 118245, 118545, 118645, 118745	
Manufacturer	SCOTTS AUSTRALIA PTY LTD	
Address	Australia: Level 2, 32 Lexington Drive Bella Vista NSW 2153	New Zealand: Level 4, 152 Fanshawe St Auckland
Emergency telephone	1800 033 111	0800 734 607
Telephone/fax number	Tel: (02) 8602 9000 Fax: (02) 8602 9001	Tel: 0800 449 213
Recommended use	Fertiliser	

2. HAZARDS IDENTIFICATION

Hazard classification	Not classified as hazardous according to the criteria of Safework Australia (formerly NOHSC). Not classified as dangerous goods according to the Australian Code for the Transport of Dangerous Good by Road & Rail. Classified as dangerous goods by the IMDG Code for transport by sea. Classified as dangerous goods by the IATA dangerous goods regulations for transport by air.
Risk & safety phrases	R20- Harmful by inhalation R36/37/38- Irritating to eyes, respiratory system and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS	Proportion of ingredients
Urea	57-13-6	10-30%
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%
Sulphuric acid	7664-93-9	<10%
Ammonium sulphate	7783-20-2	<1%
Calcium phosphate	10103-46-5	<1%
Magnesium oxide	1309-48-4	<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%
Ammonia, anhydrous	7664-41-7	0.5%



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Ingredients considered not to be hazardous - 30-60%

4. FIRST AID MEASURES

Inhalation	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.
Ingestion	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. Possible symptoms are nausea and/or vomiting.
Skin	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	TWA	STEL	STEL
		ppm	mg/m ³	ppm	mg/m ³



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Iron salts, soluble (as Fe)	-	1	-	-
Iron oxide fume (Fe ₂ O ₃) (as Fe)	-	5	-	-
Disodium tetraborate decahydrate, Borax	-	5	-	-
Magnesium oxide (fume)	-	10	-	-
Sulphuric acid	-	1	-	3
Ammonia	25	17	35	24

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

None allocated.

Engineering controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended exposure standards.

Respiratory protection

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.

Skin protection

Wear suitable protective clothing if contact is anticipated during manufacturing. PVC or other plastic material gloves.

Eye protection

Eye/face protection is not required, but is recommended in manufacturing situations where contact may occur. Safety glasses.

9. PHYSICAL AND CHEMICAL PROPERTIES

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

10. STABILITY AND REACTIVITY

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



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11. TOXICOLOGICAL INFORMATION

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	No data is available on the product itself.
Persistence and degradability	Inherently biodegradable. Non-persistent.
Mobility	Water contaminating.
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. Classified as dangerous goods by the IMDG Code for transport by sea. Classified as dangerous goods by the IATA dangerous goods regulations for transport by air.
UN number	2071
Proper shipping name	AMMONIUM NITRATE BASED FERTILIZER
DG class	9
Hazchem code	1Z
Packing group	III
EPG number	9E1
IERG number	50

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 Revised: October 2010
	End.....



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