



Safety Data Sheet

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|---------------|---|-------------|----------|----------|--------|
| SDS No. | 119155 | Issue Date: | May 2012 | Page: | 1 of 4 |
| Product Name: | MIRACLE-GRO TOTAL ALL PURPOSE PLANT FOOD | | | Version: | 1.0 |

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| | | |
|-----------------------------|---|--|
| Product name | MIRACLE-GRO TOTAL ALL PURPOSE PLANT FOOD | |
| Product code | 119155, 119555 | |
| Manufacturer | SCOTTS AUSTRALIA PTY LTD | |
| Address | Australia: Level 2, 32 Lexington Drive Bella Vista NSW 2153 | New Zealand: Level 4 152 Fanshawe St Auckland 1140 |
| Emergency telephone | 1800 033 111 | 0800 734 607 |
| Telephone/fax number | Phone: (02) 8602 9000 Fax: (02) 8602 9001 | Phone: 0800 449 213 |
| Recommended use | Fertiliser | |

2. HAZARDS IDENTIFICATION

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| 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 | 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 | <1% |
| 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



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|-----------------------------|---|
| 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

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| 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

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| 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 |
| | Iron salts, soluble (as Fe) | - | 1 | - | - |
| | Iron oxide fume (Fe ₂ O ₃) (as Fe) | - | 5 | - | - |
| | Disodium tetraborate | | | | |



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| | | | | |
|------------------------|---|----|---|---|
| decahydrate, Borax | - | 5 | - | - |
| Magnesium oxide (fume) | - | 10 | - | - |

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 and blue granules |
| Odour | Fertiliser 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

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| 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. |

11. TOXICOLOGICAL INFORMATION

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| General | Low toxicity for humans and animals. |
| Inhalation | May cause sensitization by inhalation. |



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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. May be toxic to aquatic organisms.
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 SDS Created: May 2012

End.....