Material Safety Data Sheet

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: MIRACLE-GRO WATER SOLUBLE PLANT FOOD
Manufacturer: SCOTTSS AUSTRALIA PTY LTD
Address: 11 Columbia Way Baulkham Hills NSW 2153 Australia
Emergency Tel.: 1800 033 111
Telephone/Fax: Tel:(02) 8853 7300 Fax:(02) 8853 7310
Recommended Use: Fertiliser
Synonyms:
- Miracle-Gro All Purpose Plant Food
- Miracle-Gro Rose Plant Food
- Miracle-Gro Tomato Plant Food
- Miracle-Gro Azalea, Camellia & Rhododendron Plant Food
- Miracle-Gro Garden Feeder

2. HAZARDS IDENTIFICATION

Hazard Classification: Not classified as hazardous according to ASCC. Not classified as dangerous goods according to the ADG Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Name</th>
<th>CAS</th>
<th>Proportion Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Urea</td>
<td>57-13-6</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>Urea phosphate</td>
<td>4861-19-2</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>Potassium chloride</td>
<td>7447-40-7</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>Ammonium phosphate</td>
<td>7722-76-1</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>Iron EDTA</td>
<td>15708-41-5</td>
<td>*</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Remove patient to fresh air. Get medical attention if irritation occurs and persists.
Ingestion: Rinse mouth with water and give a small glass of water to drink. Never give anything by mouth to an unconscious person. If poisoning occurs, contact a doctor or Poisons Information Centre, phone 13 11 26 (Australia) or 0800 764 766 (New Zealand).
Skin: Remove contaminated clothing. Wash area thoroughly with soap and water. Get medical attention if irritation occurs and persists.
Eye: Flush with water holding eyelids open. Seek medical attention if irritation occurs and persists.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, carbon dioxide, fine earth, dry chemical or sand. Use extinguishing media appropriate for the surrounding fire.
Hazards from Combustion Products: Carbon monoxide, carbon dioxide, nitrogen oxides (NO₂, NOx), potassium and potassium containing compounds, chlorine and chlorine containing compounds (eg HCl gas, phosgene), ammonia, cyanuric acid, cyanic acid and phosphorous and phosphorous containing compounds (eg phosphine).
Special Protective Equipment for fire fighters: Fire fighters must wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures: Shovel, sweep or scoop material into a suitable container and cover. Flush area with water. Do not attempt to clean-up spills without appropriate protective equipment. Prevent large quantities from
Material Safety Data Sheet

**Product Name:** MIRACLE-GRO WATER SOLUBLE PLANT FOOD

### 7. HANDLING AND STORAGE

**Precautions for Safe Handling:**
- Wash hands after handling. Avoid generating and inhaling dusts. Keep containers closed when not in use.
- Keep away from food and animal feedstuffs. Keep out of reach of children.
- For quality reasons keep out of direct sunlight, store under dry conditions. Partly used bags should be closed well.

**7. HANDLING AND STORAGE**

<table>
<thead>
<tr>
<th>Material Safety Data Sheet</th>
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<tbody>
<tr>
<td><strong>MSDS No.</strong></td>
</tr>
<tr>
<td><strong>Issue Date:</strong></td>
</tr>
<tr>
<td><strong>ISSUED by:</strong></td>
</tr>
</tbody>
</table>

**Handling:**
- Collect all rinse water and apply to appropriate lawn/garden areas.

**Precautions for Safe Storage:** Contacting vegetation or waterways. Keep animals away from large spills. Collect all rinse water and apply to appropriate lawn/garden areas.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards:**
- 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:**
- Ensure adequate ventilation.

**Respiratory Protection:**
- Respiratory protection should not be required for normal use/handling.
- Avoid breathing dust. If airborne dust levels are high, a dust mask is recommended to avoid inhalation. The respirator use limitations specified by the manufacturer must be observed. Respirators must be in compliance with AS/NZS 1715 and AS/NZS 1716.

**Hand Protection:**
- Wash hands thoroughly after handling. Wear gloves if in regular contact.

**Eye/face protection:**
- Safety glasses with side shields are recommended.

**Skin and Body Protection:**
- Minimise skin contact.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Fine granules, blue, red or green colour</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight ammonia odour.</td>
</tr>
<tr>
<td>Melting Point</td>
<td>133-772°C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>pH Value</td>
<td>Not volatile</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not volatile</td>
</tr>
<tr>
<td>Vapour Density (Air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Bulk density</td>
<td>800g/L</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>Not flammable</td>
</tr>
<tr>
<td>Flammable Limits</td>
<td>Not flammable</td>
</tr>
</tbody>
</table>

### 10. STABILITY AND REACTIVITY

**Chemical Stability:**
- This product is stable under recommended storage conditions.

**Conditions to Avoid:**
- None known

**Materials to Avoid:**
- None known

**Hazardous Decomposition Products:**
- In a fire, thermal decomposition of product may generate oxides of potassium, sulphur and carbon.

### 11. TOXICOLOGICAL INFORMATION

**Inhalation:**
- This product is formulated as a granule and is unlikely to be inhaled but if granule breakdown leads to dust formation then inhalation of product in dust form may cause irritation.

**Ingestion:**
- Ingestion may cause nausea and vomiting along with mild irritation to the mouth, throat, oesophagus and stomach.

**Skin:**
- May cause skin irritation.
### MSDS No. 1034  
**Issue Date**: February 2008  
**ISSUED by**: SCOTTSAU

**Product Name**: MIRACLE-GRO WATER SOLUBLE PLANT FOOD

#### Eye
May cause eye irritation.

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Ecotoxicity</th>
<th>Keep large quantities out of waterways to prevent algal blooms.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence</td>
<td>Will not bioaccumulate</td>
</tr>
<tr>
<td>Degradability</td>
<td></td>
</tr>
<tr>
<td>Environ. Protection</td>
<td>Prevent product and empty packaging from entering drains, sewers, streams, ponds and other waterways.</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

<table>
<thead>
<tr>
<th>Disposal Considerations</th>
<th>Use product as intended. Dispose of empty packaging at an approved waste disposal site. Collect rinse water and apply to appropriate lawn/garden areas.</th>
</tr>
</thead>
</table>

### 14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>Transport Information</th>
<th>Not classified as dangerous goods according to the Australian Dangerous Goods Code.</th>
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</table>

### 15. REGULATORY INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>No information available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Poisons Schedule</td>
<td>Not a scheduled poison.</td>
</tr>
</tbody>
</table>

### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Date of preparation or last revision of MSDS</th>
<th>MSDS Created: February 2008</th>
</tr>
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#### Scotts Australia Pty Ltd
11 Columbia Way  
Baulkham Hills NSW 2153  
Phone (02) 8853 7300  
Fax (02) 8853 7310  
Emergency phone 1800 033 111

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

...End Of MSDS...