MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE
Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS
Company: Scotts Australia Pty. Ltd.
Address: 11 Columbia Way, Baulkham Hills, NSW, 2153
Telephone Number: (02) 8853 7300
Fax: (02) 8853 7310
Emergency Telephone Number: Australia: 1800 033 111  New Zealand: 0800 734 607

IDENTIFICATION
Product Name: OSMOCOTE (R)
Other Names:
Manufacturers Product Code:
- 7604 Osmocote 14-6.1-11.6
- 7602 Osmocote 18-4.8-9.1
- 7605 Osmocote 19-2.6-10
- 7646 Osmocote 17-4.4-10
- 7606 Osmocote 18-2.6-10
- 7601 Osmocote 18-4.8-8.3
- 7607 Osmocote 18-2.1-9.1
- 7633 Osmocote 17-4.3-8.2
- 7707 Osmocote Zero P 18-0-9.3
- 7684 Osmocote Tropical 19-2.5-10
- 7752 Osmocote Tropical 18-2.2-9.3
- 7686 Osmocote Low P 17+1.6+8.7

UN Number: None allocated
Dangerous Goods Class: 9
Sub-Risk Class: -
Packaging Group: -
Hazchem Code: -
Poisons Schedule: Not a Scheduled Poison.
Uses: Fertilizer

Physical Description /Properties
Melting point/softening point: Decomposes on heating
Boiling Point: Decomposes on heating.
Vapour Pressure: Not available
Flashpoint: Decomposes on heating.
Flammability Limits: Non flammable
Solubility in Water: 90%
pH: Not available
Incompatibility: Strong reducing agents. Active metals such as aluminium and magnesium.
Specific Gravity: 1.2 (water = 1.0)
Bulk density: -
Volatile Proportion: Not volatile
Corrosiveness:
### Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Proportion %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredients</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ammonium Nitrate</td>
<td>6484-52-2</td>
<td>&lt;50%</td>
<td></td>
</tr>
<tr>
<td>Calcium Phosphate</td>
<td>1306-06-5</td>
<td>&lt;50%</td>
<td></td>
</tr>
<tr>
<td>Ammonium Phosphates</td>
<td>7783-28-0</td>
<td>&lt;50%</td>
<td></td>
</tr>
<tr>
<td>Calcium Fluoride</td>
<td>7789-75-5</td>
<td>&lt;10%</td>
<td></td>
</tr>
<tr>
<td>Potassium Sulphate</td>
<td>7778-80-5</td>
<td>&lt;50%</td>
<td></td>
</tr>
<tr>
<td>Inerts</td>
<td>Organic resin coating</td>
<td>-</td>
<td>&lt;10%</td>
</tr>
</tbody>
</table>

### Health Hazard Information

#### Acute
- **Swallowed**: Ingestion of large amounts of product can cause severe gastro-intestinal irritations.
- **Eye**: Direct contact with uncoated fertilizer may irritate eyes.
- **Skin**: Direct contact with uncoated fertilizer may irritate skin.
- **Inhaled**: Inhalation of dust may irritate nose, throat and lungs although product coating makes this unlikely.

#### Chronic
- Ammonium nitrate is 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.

#### First Aid

- **Swallowed**: Never give anything by mouth to an unconscious or convulsing person. If person is conscious, rinse mouth with water. Give water or milk to dilute material. Induce vomiting. Get medical help.
- **Eye**: Flush thoroughly with running water for 15 minutes.
- **Skin**: Wash with soap and water.
- **Inhaled**: Dusty conditions are unlikely if product is used as intended and product coating remains intact. However, if prolonged inhalation of dust occurs, remove victim to fresh air. Seek medical help for further treatment, observation and support after first aid.

**First Aid Facilities**: Washing facilities, eyewash.

**Advice to Doctor**: Treat symptomatically.

**Medical conditions**: Ammonium nitrate allergies. Skin abrasions and sores. Inhalation of dust may which may be aggravated aggravate asthma. by contact
PRECAUTIONS FOR USE

Exposure Standards
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 minimise airborne exposures. The ACGIH Threshold Limit Values for nuisance (inert) dust containing <1% crystalline silica and no asbestos are 10mg/m³ total, 5mg/m³ respirable.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>mg/m³ OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonium Nitrate</td>
<td>None</td>
</tr>
<tr>
<td>Potassium Sulfate</td>
<td>None</td>
</tr>
<tr>
<td>Ammonium Phosphate</td>
<td>None</td>
</tr>
<tr>
<td>Calcium Phosphates</td>
<td>None</td>
</tr>
<tr>
<td>Calcium Fluoride</td>
<td>2.5mg/m³ as F./Fed. OSHA &amp; Cal OSHA Standard, ACGIH, TLV).</td>
</tr>
</tbody>
</table>

ACGIH Biological Exposure Indices for Fluoride in Urine:
3mg/L pre-shift, 10mg/L post-shift.

Engineering Controls
Ventilation: None required for routine use.
Safety Stations: running water should be available in case material gets in eyes.

Personal Protection
Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of product dissolved in liquid may be irritating; use chemical goggles.
Gloves: None required for normal use. If prolonged or repeated use irritates skin, use neoprene or PVC gloves.
Respirator: If airborne dust levels are high or irritation occurs, use NIOSH/MSHA approved respirator for dusts, mists or fumes.

Flammability
Non flammable.

Other
Ingredients with occupational exposure limits comprise a small percentage of total product. For this reason, it is not expected that these limits will be exceeded unless the nuisance dust standards are exceeded.

SAFE HANDLING INFORMATION

Storage and Transport
Store in a cool, dry area away from incompatible materials such as aluminium and magnesium. Store away from feed and foodstuffs.

Spills and Disposal
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.
Waste Management/Disposal: 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.
Fire/Explosion Hazard

Extinguishing Media: Water.

Unusual Fire and Explosion Hazards: Decomposes on heating to emit toxic ammonia and oxides of nitrogen, phosphorus and sulfur. High airborne dust concentrations have potential for explosion.

Special Fire Fighting procedures: Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus to fight large fires.

Reactivity Data:
Stability: Stable.

Conditions to Avoid: Extreme heat. Contact with fuels and other organic or combustible materials. Strong reducing agents. Active metals such as aluminium and magnesium.

Hazardous decomposition products: Ammonia and oxides of nitrogen, phosphorus and sulfur.

Hazardous polymerization cannot occur. Avoid contact with reducing agents.

OTHER INFORMATION

Environmental Protection

Keep out of lakes, streams, ponds and waterways.

Animal Toxicity Data

Bioaccumulation Will not bioaccumulate.

Degradation The product will degrade on exposure to soil, moisture and sunlight.

CONTACT POINT

Emergency Response for Transport and Exposure
Australia: 1800 033 011
New Zealand: 0800 734 607

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