



MATERIAL SAFETY DATA SHEET

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MSDS No. 1037

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to the criteria of Worksafe Australia.

COMPANY DETAILS

Company Scotts Australia Pty. Ltd.
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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® PLUS CONTROLLED RELEASE FERTILIZER**
Other Names
Manufacturers Product Code
117520, 117720, 117220 16-3.5-10+TE Osmocote Plus Azalea, Camellia and Rhododendrons
117530, 117730, 117230 16-3.5-10+TE Osmocote Tree Shrub and Citrus
117540, 117740, 117240 16-4.4-10+TE Osmocote Plus Garden Beds
117570, 117770, 117270 15-5.2-10+TE Osmocote Plus Roses Super Feeder
117510, 117710, 117210 15-4.4-10+TE Osmocote Plus Pots, Planters Indoors
117560, 117760, 117260 17-1.6-8.6+TE Osmocote Plus Low P (Native Gardens)
117330, 107520 Osmocote Outdoor
UN Number
Dangerous Goods Class Not a Dangerous Good
Sub-Risk Class
Packaging Group
Hazchem Code
Poisons Schedule None
Uses Fertilizer

Physical Description /Properties

Appearance & Odour Mixed light and dark tan spherical prills. No odour.
Melting point/softening point Decomposes on heating
Boiling Point Decomposes on heating.
Vapour Pressure Not known
Flashpoint Decomposes on heating
Flammability Limits Not applicable
Solubility in Water 80-85%
pH
Incompatibility
Specific Gravity 1.1 (water = 1.0)
Bulk density
Volatile Proportion
Corrosiveness

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Ingredients

| Ingredient | Chemical Name | CAS Number | Proportion g/kg |
|--------------------|---------------------|-------------------------------|-----------------|
| Active ingredients | Ammonium Nitrate | 6484-52-2 | |
| | Calcium Phosphate | 7758-23-8/7757-93-9/7758-87-4 | |
| | Ammonium Phosphates | 7783-28-0/7722-76-1 | |
| | Calcium Fluoride | 7789-75-5 | |
| | Magnesium Sulfate | 10034-99-8/7487-88-9 | |
| | Potassium Nitrate | 7757-79-1 | |
| | Boric Acid | 10043-35-3 | |
| | Copper Sulphate | 7758-98-7 | |
| | Iron Sulphate | 7782-63-0 | |
| | Iron EDTA | 15708-41-5 | |
| | Manganese Sulfate | 7785-87-7 | |
| | Sodium Molybdate | 7631-95-0 | |
| | Zinc Sulfate | 7733-02-0 | |
| Zinc Oxide | 1314-13-2 | | |
| Inerts | Alkyd Resin coating | | |

HEALTH HAZARD INFORMATION

Health Effects

Acute

Swallowed

Ingestion can lead to gastro-intestinal disturbances.

Eye

Skin

Inhaled

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.

Inhalation of heavy concentrations of manganese-containing dusts over very prolonged periods of exposure (usually 1 to 3 years) has been reported to cause damage to the central nervous system.

First Aid

Swallowed

Never give anything by mouth to an unconscious or convulsing person. Have conscious person drink 1 to 2 glasses of water, then induce repeated vomiting until vomit is clear. Call physician.

Eye

If in eyes, flush with water for 15 minutes holding eyelids open. Get medical attention if irritation persists.

Skin

Wash with plenty of soap and water.

Inhaled

Remove to fresh air. Treat symptomatically.

First Aid Facilities

Advice to Doctor

Medical conditions which may be aggravated by contact

Skin abrasions and sores. Inhalation of dust may aggravate asthma.

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

| <u>Constituent:</u> | <u>mg/m³ OSHA</u> |
|---------------------|------------------------------|
| Ammonium Nitrate | None |
| Ammonium Phosphates | None |
| Calcium Phosphates | None |
| Calcium Fluoride | 2.5mg(F)/m ³ |
| Potassium Nitrate | None |
| Magnesium Sulfate | None |
| Boric Acid | None |
| Copper Sulfate | None |
| Iron Sulfate | 1mg/(Fe)m ³ |
| Iron EDTA | None |
| Manganese Sulfate | 5mg/(Mn)m ³ |
| Sodium Molybdate | 5mg/(Mo)m ³ |
| Zinc Sulfate | None |
| Zinc Oxide | 5mg/m ³ |

Engineering Controls
Personal Protection

Goggles: None required for routine use as fertilizer. High airborne dust levels or mists of products 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 product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection (e.g. NIOSH/MSHA approved respirator for dusts, mists and fumes) to reduce exposures to acceptable levels.

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.

Workplace Considerations:

Ventilation: Ventilation and personal protection are recommended whenever dust levels are high or product does not remain intact.

Safety Stations: Running water should be available in case material gets in eyes.

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

Flammability

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SAFE HANDLING INFORMATION

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|-----------------------|---|
| Storage and Transport | Store in a cool, dry area away from incompatible materials and heat sources. Store away from feed and foodstuffs as well as household cleaning products. Wash hands with soap and water after handling product. Keep out of reach of children. |
| Spills and Disposal | Avoid dusting or misting conditions during cleanup. 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 | <u>In Case of Fire:</u> Evacuate area. Flood with water to cool containers. Wear self-contained breathing apparatus to fight large fires. Unusual Fire, Explosion and Reactivity Hazards: Decomposes on heating to emit toxic oxides of nitrogen, phosphorus, potassium and sulfur, as well as ammonia. High airborne dust concentrations have the potential for explosion. Stability: Stable Hazardous Polymerization: Will not occur. Conditions to Avoid: Extreme heat. Contact with strong alkalies, oxidizers and reducing agents. Contact with fuels and other organic or combustible materials. Active metals such as aluminum and magnesium. Hazardous Decomposition Products: In a fire, may produce oxides of nitrogen, phosphorus, potassium and sulfur, as well as ammonia. Extinguishing Media: Water. Chemical Incompatibilities: Strong oxidizing (permanganate, dichromate, nitrate, chlorine) and reducing agents, sodium nitrite and many chlorine compounds (including household bleach and other cleaning products). Active metals such as aluminum and magnesium. |

OTHER INFORMATION

Environmental
Protection
Animal Toxicity Data

CONTACT POINT

| | |
|---|--------------------------|
| Emergency Response for Transport and Exposure | Scotts Australia Pty Ltd |
| Australia: 1800 033 111 | 11 Columbia Way |
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