



MATERIAL SAFETY DATA SHEET

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Date of Issue 8/4/04
MSDS No. 1034

STATEMENT OF HAZARDOUS NATURE

Not classified as hazardous according to criteria of Worksafe Australia.

COMPANY DETAILS

Company Scotts Australia Pty. Ltd.
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Telephone Number (02) 8853 7300
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Emergency Telephone Number Australia: 1800 033 111
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IDENTIFICATION

Product Name **MIRACLE-GRO - ALL PURPOSE WATER SOLUBLE PLANT FOOD**
Other Names - **ROSE FOOD**
- **TOMATO FOOD**
- **AZALEA, CAMELLIA, RHODODENDRON**
Manufacturers Product Code 111012, 111015, 111011, 111014, 111013, 111023, 111021, 111026
UN Number None allocated
Dangerous Goods Class Not a Dangerous Good
Sub-Risk Class -
Packaging Group -
Hazchem Code -
Poisons Schedule Not a scheduled poison
Uses Fertiliser

Physical Description /Properties

Appearance & Odour Fine granules, medium blue colour with slight ammonia odour.
Melting point/softening point 133-772°C
Boiling Point Not applicable
Vapour Pressure Non-volatile
Flashpoint Non-combustible
Flammability Limits Non-combustible
Solubility in Water 280g/L
pH
Incompatibility
Specific Gravity 0.80
Bulk density
Volatile Proportion Non volatile
Corrosiveness

Ingredients

Ingredient	Chemical Name	CAS Number	Proportion g/kg
Active ingredients	Urea	57-13-6	*
	Urea phosphate	4861-19-2	*
	Potassium Chloride	7447-40-7	*
	Ammonium Phosphate	7722-76-1	*
	Iron EDTA	15708-41-5	*
			* Quantities not disclosed by supplier
Inerts			

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HEALTH HAZARD INFORMATION

Health Effects

Acute All materials in this product are considered to have low toxicity by the expected routes of exposure.

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

Eye Eye contact may cause mild transient irritation.

Skin Skin contact may cause mild transient irritation.

Inhaled High dust concentrations may cause mild upper respiratory tract irritation with coughing and nasal discharge.

Chronic

First Aid

Swallowed Immediately rinse mouth out with plenty of water. If within 30 minutes after ingestion, give person a small glass of water or milk – never give anything by mouth to an unconscious person. Do not induce vomiting unless instructed to do so by physician or poison centre. Seek medical attention immediately.

Eye Immediately flush eyes with plenty of water. Remove any contact lenses (if easy to do so) and continue flushing for 15 minutes. Seek medical attention immediately if irritation develops or persists.

Skin Remove contaminated clothing. Flush affected area with water for 15 minutes. Wash affected area with mild soap and water. Seek medical attention if irritation develops or persists.

Inhaled Remove person to fresh air. Seek medical attention immediately if breathing becomes difficult.

First Aid Facilities Eyewash, washing facilities, soap and water.

Advice to Doctor Treat symptomatically.

Medical conditions which may be aggravated by contact None known.

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PRECAUTIONS FOR USE

Exposure Standards	Exposure limit standards for some of the constituents of this preparation are as follows: <table border="0" style="width: 100%;"><thead><tr><th style="text-align: left;"><u>Constituent:</u></th><th style="text-align: center;"><u>OSHA</u></th><th style="text-align: center;"><u>ACGIH</u></th></tr><tr><td></td><th style="text-align: center;"><u>PEL</u></th><th style="text-align: center;"><u>TLV</u></th></tr></thead><tbody><tr><td>Urea</td><td style="text-align: center;">15mg/m³</td><td style="text-align: center;">10mg/m³</td></tr><tr><td>Urea Phosphate</td><td style="text-align: center;">15mg/m³</td><td style="text-align: center;">10mg/m³</td></tr><tr><td>Potassium Chloride</td><td style="text-align: center;">15mg/m³</td><td style="text-align: center;">10mg/m³</td></tr><tr><td>Ammonium Phosphate</td><td style="text-align: center;">15mg/m³</td><td style="text-align: center;">10mg/m³</td></tr><tr><td>Iron EDTA</td><td style="text-align: center;">15mg/m³</td><td style="text-align: center;">10mg/m³</td></tr><tr><td>Nuisance Dust</td><td style="text-align: center;">15mg/m³</td><td style="text-align: center;">5mg/m³</td></tr><tr><td></td><td style="text-align: center;">(total dust)</td><td style="text-align: center;">(respirable)</td></tr></tbody></table>	<u>Constituent:</u>	<u>OSHA</u>	<u>ACGIH</u>		<u>PEL</u>	<u>TLV</u>	Urea	15mg/m ³	10mg/m ³	Urea Phosphate	15mg/m ³	10mg/m ³	Potassium Chloride	15mg/m ³	10mg/m ³	Ammonium Phosphate	15mg/m ³	10mg/m ³	Iron EDTA	15mg/m ³	10mg/m ³	Nuisance Dust	15mg/m ³	5mg/m ³		(total dust)	(respirable)
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Engineering Controls	If industrial hygiene surveys show that exposures exceed TLV's or other exposure limits, use a combination of local exhaust and general dilution/ventilation to control exposures. If that is not feasible, see recommendations under "Respiratory Protection".																											
Personal Protection	If concentrations are below all limits in Section 2, no respiratory protection is necessary. If concentrations exceed the limits in Section 2, NIOSH approved respiratory protection may be necessary. Seek professional advice prior to respirator selection or use. Follow OSHA respiratory regulations (29 CFR 1910.134). Use a positive pressure air supplied respirator if there is a potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. Eye Protection: Safety glasses with side shields are recommended. Hand Protection: Protective gloves recommended. Contact glove manufacturer for more information. Body Protection: Minimize skin contact. Safety Equipment: Eyewash and deluge shower recommended.																											
Flammability	Not flammable.																											

SAFE HANDLING INFORMATION

Storage and Transport	Wash hands with soap and water after handling product. Follow specific use instructions supplied with product. Store in a cool, dry area in closed container or package. Keep containers closed at all times. Do not re-use containers. Store away from incompatible materials. Use with proper personal protective equipment. Keep out of reach of children.
Spills and Disposal	Extinguish all ignition sources. Shovel, sweep or scoop material into a suitable container and cover. Flush area with water. Do not attempt to clean-up spills with appropriate protective equipment. Prevent large quantities from contacting vegetation or waterways. Keep animals away from large spills. Collect all rinse water and apply to appropriate lawn/garden areas.

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Fire/Explosion Hazard This product is non-combustible. Personnel responding to a spill of this material should wear appropriate personal protective equipment.

Stability: Stable at normal temperatures.

Incompatible materials and conditions to avoid: Excessive heat, contact with strong alkalis, fuels, other combustible materials, strong oxidizing agents (permanganate, dichromate, chlorine, etc), strong acids (eg sulfuric acid), strong bases (eg sodium hydroxide) reducing agents, methanamine and many chlorine compounds (eg sodium hypochlorite, sodium chlorate, pool chemicals, household bleach and other cleaning products). Active metals such as aluminum and magnesium.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, nitrogen oxides (NO₂ , NO_x, HCN gas), 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).

Extinguishing media: Water spray, carbon dioxide, fine earth, dry chemical or sand. Use extinguishing media appropriate for the surrounding fire.

Hazardous products of combustion: carbon monoxide, carbon dioxide, nitrogen oxides (NO₂, NO_x), 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).

Protective equipment: Fire-fighters must wear self contained breathing apparatus.

Unusual fire and explosion hazards: Keep away from heat, sparks or flames. Flood with water to cool containers.

OTHER INFORMATION

Environmental Protection	Keep large quantities away from waterways and dams to avoid algal blooms.
Animal Toxicity Data	Urea LD50 Rat – oral 8471mg/kg
APVMA Registration No.	Not applicable.

CONTACT POINT

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