



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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Emergency Telephone Number Australia: 1800 033 111
New Zealand: 0800 734 607

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	*
Inerts			* Quantities not disclosed by supplier

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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

None known.

which may be aggravated
by contact

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PRECAUTIONS FOR USE

Exposure Standards	Exposure limit standards for some of the constituents of this preparation are as follows:		
	<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 (total dust)	5mg/m ³ (respirable)
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. Not flammable.		
Flammability			

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

NRA Registration No. Not applicable.

CONTACT POINT

Emergency Response for Transport and Exposure
Australia: 1800 033 111
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