

MATERIAL SAFETY DATA SHEET

MSDS Ref. No.: 101320 **Revision Number: 0** Date stamp: 14-Jun-2007

PRODUCT AND COMPANY IDENTIFICATION

Product name: Miracle-Gro® Watering Can SinglesTMAll Purpose Water Soluble Plant Food, 24-8-16

Description: Water Soluble Fertilizer

Company

24-HOUR EMERGENCY TELEPHONE NUMBERS: The Scotts Company LLC CHEMTREC (U.S.): 1-800-424-9300 CHEMTREC (International): 1-703-527-3887 14111 Scottslawn Road Marysville, OH 43041 Non-Emergency Calls: 1-937-644-0011

Formula No.: S10385 Product Number(s): 101320

2. HAZARDS IDENTIFICATION

Labelling

Signal word: No signal word

Precautionary Statements Keep out of reach of children.

Potential health effects

Eye contact: Contact with eyes may cause irritation. Skin contact: Irritation not expected. Irritation possible.

Ingestion: Considered practically non-toxic. Possible gastrointestinal tract irritation.

Inhalation: May cause irritation of respiratory tract.

Inhalation may aggravate asthma. **Aggravated Medical Conditions:**

Principle routes of exposure: Skin, Inhalation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Urea	57-13-6	30-60
Potassium Phosphate	7778-77-0	10-30
Ammoniumsulphate, (NH4)2SO4	7783-20-2	10-30
Potassium chloride, KCI	7447-40-7	10-30
Iron EDTA	15708-41-5	1.0-5.0
Manganese EDTA	15375-84-5	0.1-1.0
Copper sulphate, CuSO4	7758-98-7	0.1-1.0
Zinc Sulfate Anhydrous	7733-02-0	0.1-1.0
Boric acid, H3BO3	10043-35-3	0.1-1.0
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	<0.1

4. FIRST AID MEASURES

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if

present after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for

treatment advice

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Skin contact:

poison control center or doctor for treatment advice

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if

able to swallow. Do not induce vomiting unless told to do so be a poison control center or doctor. Do not

give anything by mouth to an unconscious person

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferabley by mouth-to-mouth, if possible. Call a poison control center or doctor for further

treatment advice

5. FIRE-FIGHTING MEASURES

Flammable properties: Decomposes on heating.

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5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water spray, carbon dioxide, dry chemical, chemical foam

Explosion potential: Dust clouds may be explosive. Explosive properties:No information available.

Hazardous combustion products:

Fire fighting procedures:

Special protective equipment for

Combustion can produce toxic fumes and irritating gases.

Select appropriate method to surround and extinguish fire
In the event of fire, wear self-contained breathing apparatus

firefighters:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective equipment Environmental precautions: Prevent product from entering drains

Methods for containment:

Use good housekeeping practices. Clean up promptly by sweeping or vacuum.

Methods for cleaning up:

If material is uncontaminated, collect and reuse as recommended for product.

7. HANDLING AND STORAGE

Handling: Avoid container breakage

Storage: Keep containers tightly closed in a cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Ammoniumsulphate, (NH4)2SO4	Not Listed	Not Listed
Potassium Phosphate	Not Listed	Not Listed
Potassium chloride, KCl	Not Listed	Not Listed
Urea	Not Listed	Not Listed
Boric acid, H3BO3	2 mg/m³ TWA	Not Listed
Manganese EDTA	Not Listed	Not Listed
Iron EDTA	1 mg/m³ TWA	Not Listed
Copper sulphate, CuSO4	Not Listed	Not Listed
Sodium molybdate, Na2MoO4+2H2O	0.5 mg/m ³ TWA	5 mg/m³ TWA
Zinc Sulfate Anhydrous	Not Listed	Not Listed

Engineering controls

Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard

Personal Protective Equipment

Eye/face protection: Eye/face protection is not required, but is recommended in manufacturing situations where contact may

occui

Skin and body protection: Wear suitable protective clothing if contact is anticipated during manufacturing. impervious gloves. **Respiratory protection:** If airborne 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

General hygiene considerations: Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:SolidAppearance:GranularColor:BluepH:3.0 - 4.0

Bulk density: 45-50 lbs/cu.ft. **Solubility:** Water solubility, Highly soluble (>80%)

Flash point: Not applicable

10. STABILITY AND REACTIVITY

Chemically Stable: Yes

Conditions to avoid:Damp or wet conditions. Extreme heat.
Materials to avoid:
Oxidizing agents. Metals. Bases.

Hazardous decomposition products: Toxic fumes and gases may be generated. Metal oxides possible.

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10. STABILITY AND REACTIVITY

Possibility of hazardous reactions: Poses little or no immediate hazard.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Eye effects: Contact with eyes may cause irritation Skin effects: May cause skin irritation and/or dermatitis

Chronic toxicity

Carcinogenic effects: The table below indicates whether each agency has listed any indgredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Ammoniumsulphate, (NH4)2SO4	Not listed	Not listed	Not listed
Potassium Phosphate	Not listed	Not listed	Not listed
Potassium chloride, KCI	Not listed	Not listed	Not listed
Urea	Not listed	Not listed	Not listed
Boric acid, H3BO3	Not listed	Not listed	Not listed
Manganese EDTA	Not listed	Not listed	Not listed
Iron EDTA	Not listed	Not listed	Not listed
Copper sulphate, CuSO4	Not listed	Not listed	Not listed
Sodium molybdate, Na2MoO4+2H2O	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed

General Information Very low toxicity for humans and animals

Ingestion: Health injuries are not known or expected under normal use Inhalation: Health injuries are not known or expected under normal use

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:No data is available on the product itself. **Persistence and degradability:**Inherently biodegradable. Non-persistent.

Bioaccumulative potential: Does not bioaccumulate.

Mobility: Water contaminating.

Aquatic toxicity: May be beneficial to plant life.

Additional ecological information: Do not apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.

Contaminated packaging: Do not re-use empty containers. If empty, place in trash or offer for recycling if available.

14. TRANSPORT INFORMATION

The description shown may not apply to all situations. Consult 49 CFR, or appropriate dangerous goods regulations for additional description requirements (e.g. technical name) and mode-specific or quantity-specific shipping requirements.

<u>DOT</u>

Proper shipping name: Not DOT regulated

15. REGULATORY INFORMATION

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15. REGULATORY INFORMATION			
Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ammoniumsulphate, (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Potassium Phosphate	7778-77-0	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Jrea	57-13-6	Not Listed	Not Listed
Boric acid, H3BO3	10043-35-3	Not Listed	Not Listed
Manganese EDTA	15375-84-5	Not Listed	Not Listed
ron EDTA	15708-41-5	Not Listed	Not Listed
Copper sulphate, CuSO4	7758-98-7	10 lb final RQ	Not Listed
		4.54 kg final RQ	
Sodium molybdate, Na2MoO4+2H2O	7631-95-0	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ	Not Listed
•		454 kg final RQ	

General Information

Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION

NFPA:Health: 1Flammability: 0Reactivity: 0HMIS:Health: 1Flammability: 0Reactivity: 0

Hazard Rating: 0=Least; 1-Slight; 2=Moderate; 3=High; 4=Severe

General comment: This document contains health, safety, and environmental information useful to emergency response agencies, health care providers, manufacturers, and workers/employees. It does not replace the precautionary language, use directions, or the storage and disposal information found on the product label.

Additional Information: This information contained herein is, to the best of Scott's knowledge and belief, accurate and reliable as of the date of preparation of this document. However, no warranty or guarantee, express or implied, is made as to the accuracy or reliability, and Scotts shall not be liable for any loss or damage arising out of the use thereof. No authorization is given or implied to use any patented invention without a license. In addition, Scotts shall not be liable for any damage or injury resulting from abnormal use, from any failure to adhere to recommended practices or from any hazards inherent in the nature of the product.

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