

# MATERIAL SAFETY DATA SHEET

 Date stamp:
 29-Jul-2005
 MSDS Ref. No.:
 33505-2
 Revision Number: 5

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Scotts® Turf Builder® with Moss Control, 22-2-2

**Description:** Herbicide

Company

The Scotts Company 14111 Scottslawn Road Marysville, OH 43041

EPA Registration No.: 538-223

Formula No.: S10428

# 24-HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC (U.S.): 1-800-424-9300 CHEMTREC (International): 1-703-527-3887 Non-Emergency Calls: 1-937-644-0011

#### 2. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION.

Precautionary Statement May be harm if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact

with eyes, skin, and clothing. Wash with soap and water after handling. Keep out of reach of children.

Potential health effects

**Eye contact:** Contact with eyes may cause irritation.

**Skin contact:** May cause skin irritation in susceptible persons.

Ingestion:Possible gastrointestinal tract irritation.Inhalation:May cause irritation of respiratory tract.

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

Principle routes of exposure: Skin, Inhalation, Ingestion, Eyes

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	17.5
Urea	57-13-6	15-40
Potassium sulphate, K2SO4	7778-80-5	3-7
Ammonium Phosphate	7722-76-1	3-7
Ammoniumsulphate, (NH4)2SO4	7783-20-2	30-60

# 4. FIRST AID MEASURES

Eye contact: If in eyes, 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. Call a poison control center or doctor for

treatment advice.

**Skin contact:** If on skin or clothing, take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20

minutes. Call a poison control center or doctor for treatment advice.

**Ingestion:** Call a physician or Poison Control Centre immediately. Have person sip a glass of water if able to swallow.

Do not induce vomiting without medical advice. Never 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, preferably 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.

Suitable extinguishing media: Water spray. Dry chemical. Carbon dioxide (CO2).

Explosion potential: Dust at sufficient concentrations may form explosive mixtures with air.

**Hazardous combustion products:**Combustion can produce toxic fumes and irritating gases. **Fire fighting procedures:**Select appropriate method to surround and extinguish fire

Revision date: 25-Jul-2005 Page 1 of 4

MSDS Ref. No .

33505-2

Special protective equipment for

firefighters:

In the event of fire, wear self-contained breathing apparatus.

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin, eyes and clothing.

**Environmental precautions:** Do not let product enter drains.

Methods for containment: Vacuum or sweep up material and place in a disposal container.

Methods for cleaning up: If material is uncontaminated, collect and reuse as recommended for product. If material is contaminated,

put in appropriate container and dispose.

### 7. HANDLING AND STORAGE

Handling: Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Do not contaminate water sources when disposing of equipment wash waters. Keep out of lakes, streams or ponds.

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

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Urea	Not Listed	Not Listed
Potassium sulphate, K2SO4	Not Listed	Not Listed
Ammonium Phosphate	Not Listed	Not Listed
Ammoniumsulphate, (NH4)2SO4	Not Listed	Not Listed
Ferrous Sulfate Monohydrate (Iron	1 mg/m³ TWA as Fe	Not Listed
Sulfate)	-	

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

occur.

Skin and body protection: No special protective clothing is required under normal workplace conditions. After using product, remove

clothing and wash before reuse.

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: Solid Appearance: Granular

pH:3.12Bulk density:49 lbs/cubic meterSolubility:No information availableFlash point:Not applicable

# 10. STABILITY AND REACTIVITY

Chemically Stable: Yes.

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, magnesium, and chlorine compounds.

Materials to avoid: Strong acids, bases, oxidizers, and reducing agents.

Hazardous decomposition products: Combustion may produce irritating gases and vapors. Toxic metal oxides may be produced.

Possibility of hazardous reactions: Potentially explosive with methyl isocyanoacetate.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

**LD50/oral:** >2.650 mg/kg, rat **LD50/dermal:** >2.0 g/kg, rabbit

LC50/inhalation: >5.27 mg/L, (dust), rat

Revision date: 25-Jul-2005 Page 2 of 4

33505-2

MSDS Ref. No.:

**Eye effects:** Mild eye irritation, rabbit **Sensitization:** No sensitization, guinea pig

Chronic toxicity

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

Components	NTP:	IARC:	OSHA:
Urea	Not listed	Not listed	Not listed
Potassium sulphate, K2SO4	Not listed	Not listed	Not listed
Ammonium Phosphate	Not listed	Not listed	Not listed
Ammoniumsulphate, (NH4)2SO4	Not listed	Not listed	Not listed
Ferrous Sulfate Monohydrate (Iron	Not listed	Not listed	Not listed
Sulfate)			

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Inhalation:** May cause irritation of respiratory tract.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity effects:** No data is available on the product itself.

Persistence and degradability:

Bioaccumulative potential:

Mobility:

Aquatic toxicity:

Not inherently biodegradable.

No information available.

Water contaminating.

No information available.

Additional ecological information: Do not contaminate water sources when disposing of equipment washwaters.

#### 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: If empty, do not reuse container. If partially filled, call the local solid waste agency or 1-800-CLEANUP for

disposal instructions. Do not place product down any indoor or outdoor drain.

### 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.

DOT

Proper shipping name: Not regulated

Other Shipping Information: Environmentally hazardous substance, solid, n.o.s., 9, UN3077, PGIII, RQ (Ferrous Sulfate) when

transported in bulk (5,714 lbs. or more).

#### 15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Urea	57-13-6	Not Listed	Not Listed
Potassium sulphate, K2SO4	7778-80-5	Not Listed	Not Listed
Ammonium Phosphate	7722-76-1	Not Listed	Not Listed
Ammoniumsulphate, (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	Not Listed	Not Listed

General Information Contact local authorities for disposal of large quantities of product.

#### 16. OTHER INFORMATION

NFPA: Health: 2 Flammability: 0 Reactivity: 0

HMIS: Health: 2 Flammability: 0 Reactivity: 0

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

Revision date: 25-Jul-2005 Page 3 of 4

MSDS Ref. No.:

33505-2

**EPA FIFRA Comment:** Use of this product is regulated by the U.S. Environmental Protection Agency (EPA) through the approved product label. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**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.

Revision date: 25-Jul-2005

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.

Revision date: 25-Jul-2005 Page 4 of 4