



MATERIAL SAFETY DATA SHEET

Date stamp: 24-Jul-2008

MSDS Ref. No.: 23405-4

Revision Number: 0

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Scotts® Southern Turf Builder® Lawn Fertilizer with 2% Iron, 32-0-10, Water Smart Formula
Description: Fertilizer

Company
The Scotts Company LLC
14111 Scottslawn Road
Marysville, OH 43041

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

Formula No.: S13508
Product Number(s): 23405-4, 23405A4, 23405C4

2. HAZARDS IDENTIFICATION

Labelling

Signal word: CAUTION
Precautionary Statements May cause eye irritation. 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
Target organ effects: Irritation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Urea	57-13-6	60-100
Potassium sulphate, K ₂ SO ₄	7778-80-5	10-30
Sulphur, S	7704-34-9	5-10
Ammonium sulphate, (NH ₄) ₂ SO ₄	7783-20-2	3-7
Iron Oxide	1309-37-1	1-5

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. Foam. 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:

5. FIRE-FIGHTING MEASURES

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: Prevent product from entering 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:
Iron Oxide	5 mg/m ³ TWA	10 mg/m ³ TWA
Sulphur, S	Not Listed	Not Listed
Urea	Not Listed	Not Listed
Potassium sulphate, K ₂ SO ₄	Not Listed	Not Listed
Ammonium sulphate, (NH ₄) ₂ SO ₄	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 occur.

Skin and body protection: No special protective clothing is required under normal workplace conditions. If skin irritation occurs, use natural rubber gloves, durable cloth or impervious rubber gloves if contact with product is possible.

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
Re-entry Interval: After product has been watered in and foliage is dry.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid
Bulk density: 41-47 lbs/cu ft
Odor: Fertilizer

Color: Tan, Pink, White
Appearance: Granular
Solubility: No information available

10. STABILITY AND REACTIVITY

Chemically Stable: Yes.
Conditions to avoid: Extreme heat. Contact with strong alkalis, 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: 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 in susceptible persons

Chronic toxicity

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

Components	NTP:	IARC:	OSHA:
Iron Oxide	Not listed	3	Not listed
Sulphur, S	Not listed	Not listed	Not listed
Urea	Not listed	Not listed	Not listed
Potassium sulphate, K ₂ SO ₄	Not listed	Not listed	Not listed
Ammonium sulphate, (NH ₄) ₂ SO ₄	Not listed	Not listed	Not listed

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation: May cause irritation of respiratory tract.
Target organ effects: Irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects: No data is available on the product itself.
Persistence and degradability: Inherently biodegradable.
Bioaccumulative potential: Does not bioaccumulate.
Mobility: Water contaminating.
Aquatic toxicity: May be beneficial to plant life.
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 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 (Land) Not DOT regulated
DOT (AIR) Not DOT regulated
DOT (Vessel) Not DOT regulated

15. REGULATORY INFORMATION

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Iron Oxide	1309-37-1	Not Listed	Not Listed
Sulphur, S	7704-34-9	Not Listed	Not Listed
Urea	57-13-6	Not Listed	Not Listed
Potassium sulphate, K ₂ SO ₄	7778-80-5	Not Listed	Not Listed
Ammonium sulphate, (NH ₄) ₂ SO ₄	7783-20-2	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: 1
HMIS: Health: 2 Flammability: 0 Reactivity: 1

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.