



# MATERIAL SAFETY DATA SHEET

Date stamp: 26-May-2006

MSDS Ref. No.: 100836

Revision Number: 2

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Miracle-Gro® Shake'n Feed® All Purpose Plant Food Plus Weed Preventer™, 10-10-10  
**Description:** Fertilizer plus Herbicide

**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

**EPA Registration No.:** 62355-4  
**Formula No.:** S12513

## 2. HAZARDS IDENTIFICATION

### Labelling

**Signal word:** CAUTION

### Precautionary Statement

Causes eye irritation. Avoid contact with eyes, skin, and clothing. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use. Keep out of reach of children and domestic animals.

### 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:** Pre-existing dermatitis or sores. Inhalation of dust may aggravate asthma.

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Trifluralin	1582-09-8	0.153
Urea	57-13-6	3-7
Sulphur, S	7704-34-9	10-30
Ammonium Phosphate	7722-76-1	10-30
Ammoniumsulphate, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	7783-20-2	10-30
Potassium chloride, KCl	7447-40-7	10-30

## 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. Non-flammable.  
**Suitable extinguishing media:** Water spray, dry chemical, foam, carbon dioxide (CO<sub>2</sub>).  
**Explosion potential:** Dust at sufficient concentrations may form explosive mixtures with air.

## 5. FIRE-FIGHTING MEASURES

**Hazardous combustion products:** Combustion can produce toxic fumes and irritating gases.  
**Fire fighting procedures:** Select appropriate method to surround and extinguish fire  
**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:** Clean up promptly by sweeping or vacuum.  
**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. Keep out of reach of children and pets.

**Storage:** Keep containers tightly closed in a cool, well-ventilated place. Do not contaminate water, food, or feed by storage or disposal.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	ACGIH:	OSHA:
Urea	Not Listed	Not Listed
Potassium chloride, KCl	Not Listed	Not Listed
Trifluralin	Not Listed	Not Listed
Ammoniumsulphate, (NH <sub>4</sub> ) <sub>2</sub> SO <sub>4</sub>	Not Listed	Not Listed
Ammonium Phosphate	Not Listed	Not Listed
Sulphur, S	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:** Protective eye wear is normally not required but suggested so contact can be avoided.  
**Skin and body protection:** No special protective clothing is required under normal workplace conditions. To reduce exposure potential when applying product, wear long-sleeved shirt, long pants, shoes, and socks. After using product, remove clothing and wash before reuse.  
**Respiratory protection:** No special protective equipment required.

**General hygiene considerations:** Wash hands before breaks and immediately after handling the product  
**Re-entry Interval:** When dust has settled. After product has been watered in and foliage is dry.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b> Solid	<b>Appearance:</b> Granular
<b>Color:</b> Yellow, Green	<b>Odor:</b> Ammonia
<b>Bulk density:</b> 64 lbs/cu ft	<b>Solubility:</b> Water solubility, Negligible

## 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

LD50/oral: >5000 mg/kg, rat  
 LD50/dermal: >5000 mg/kg, rat  
 LC50/inhalation: >2.10 mg/L, (dust), rat  
 Eye effects: Mild eye irritation, rabbit  
 Skin effects: Slight irritation, rabbit  
 Sensitization: No sensitization, guinea pig

**Chronic toxicity**

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

Components	NTP:	IARC:	OSHA:
Urea	Not listed	Not listed	Not listed
Potassium chloride, KCl	Not listed	Not listed	Not listed
Trifluralin	Not listed	3	Not listed
Ammoniumsulphate, (NH4)2SO4	Not listed	Not listed	Not listed
Ammonium Phosphate	Not listed	Not listed	Not listed
Sulphur, S	Not listed	Not listed	Not listed

**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. Information given is based on data on the components and the ecotoxicology of similar products.  
**Persistence and degradability:** Inherently biodegradable.  
**Bioaccumulative potential:** Does not bioaccumulate.  
**Mobility:** Resists leaching.  
**Aquatic toxicity:** Toxic to fish and other water organisms.  
**Additional ecological information:** Do not contaminate water with product or its container. Do not apply directly to lakes, streams, or ponds.

**13. DISPOSAL CONSIDERATIONS**

**Waste Disposal Methods:** If empty, do not reuse container. 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 DOT regulated

**15. REGULATORY INFORMATION**

Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Urea	57-13-6	Not Listed	Not Listed
Potassium chloride, KCl	7447-40-7	Not Listed	Not Listed
Trifluralin	1582-09-8	10 lb final RQ 4.54 kg final RQ	Not Listed
Ammoniumsulphate, (NH4)2SO4	7783-20-2	Not Listed	Not Listed
Ammonium Phosphate	7722-76-1	Not Listed	Not Listed
Sulphur, S	7704-34-9	Not Listed	Not Listed

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

**16. OTHER INFORMATION**

---

## 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

**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.

**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.