



# MATERIAL SAFETY DATA SHEET

Date stamp: 31-Jan-2007

MSDS Ref. No.: 98620

Revision Number: 0

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Scotts® 18-5-12 Topdress 5-6 Month Fertilizer with Minors  
**Description:** Controlled Release Fertilizer

**Company**  
The Scotts Company  
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.:** S10857

## 2. HAZARDS IDENTIFICATION

### Labelling

**Signal word:** CAUTION

**Precautionary Statement** Do not ingest. Do not inhale. Keep out of reach of children.

### Potential health effects

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

**Skin contact:** Irritation not expected.

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

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

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

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No	Weight %
Ammoniumnitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	30-60
Calciumphosphate, Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7758-87-4	1-5
Ammonium Phosphate	7722-76-1	7-13
Potassium sulphate, K <sub>2</sub> SO <sub>4</sub>	7778-80-5	10-30
Sulphur, S	7704-34-9	3-7
Iron Oxide	1309-37-1	0.1-1
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	0.1-1
Magnesiumsulphate, MgSO <sub>4</sub>	7487-88-9	0.1-1
Magnesiumoxide, MgO	1309-48-4	0.1-1
Manganese Oxide	1344-43-0	0.1-1
Manganese sulphate, MnSO <sub>4</sub>	7785-87-7	0.1-1
Zinc Sulfate Anhydrous	7733-02-0	<0.1

## 4. FIRST AID MEASURES

**Eye contact:** Hold eye open and rins 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

**Skin contact:** 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 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 by 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, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice

## 5. FIRE-FIGHTING MEASURES

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**5. FIRE-FIGHTING MEASURES**

**Flammable properties:** Decomposes on heating.  
**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:** 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:** 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 dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Components	ACGIH:	OSHA:
Ammoniumnitrate, NH4NO3	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	Not Listed	Not Listed
Potassium sulphate, K2SO4	Not Listed	Not Listed
Ammonium Phosphate	Not Listed	Not Listed
Sulphur, S	Not Listed	Not Listed
Magnesiumsulphate, MgSO4	Not Listed	Not Listed
Magnesiumoxide, MgO	10 mg/m <sup>3</sup> TWA	15 mg/m <sup>3</sup> TWA total
Manganese Oxide	0.2 mg/m <sup>3</sup> TWA	Not Listed
Manganese sulphate, MnSO4	0.2 mg/m <sup>3</sup> TWA	Not Listed
Zinc Sulfate Anhydrous	Not Listed	Not Listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	1 mg/m <sup>3</sup> TWA	Not Listed
Iron Oxide	1 mg/m <sup>3</sup> TWA 5 mg/m <sup>3</sup> TWA	10 mg/m <sup>3</sup> TWA

**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:** 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:** Solid  
**Color:** Multi-colored  
**Bulk density:** 55-65 lbs/cu.ft.  
**Appearance:** Granular  
**Odor:** Fertilizer  
**Flash point:** Not applicable

**10. STABILITY AND REACTIVITY**

**Chemically Stable:** Yes  
**Conditions to avoid:** Damp or wet conditions. Extreme heat.

**10. STABILITY AND REACTIVITY**

**Materials to avoid:** Oxidizing agents. Metals. Bases.  
**Hazardous decomposition products:** Toxic fumes and gases may be generated. Metal oxides possible.  
**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 ingredient as a carcinogen.

Components	NTP:	IARC:	OSHA:
Ammoniumnitrate, NH <sub>4</sub> NO <sub>3</sub>	Not listed	Not listed	Not listed
Calciumphosphate, Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	Not listed	Not listed	Not listed
Potassium sulphate, K <sub>2</sub> SO <sub>4</sub>	Not listed	Not listed	Not listed
Ammonium Phosphate	Not listed	Not listed	Not listed
Sulphur, S	Not listed	Not listed	Not listed
Magnesiumsulphate, MgSO <sub>4</sub>	Not listed	Not listed	Not listed
Magnesiumoxide, MgO	Not listed	Not listed	Not listed
Manganese Oxide	Not listed	Not listed	Not listed
Manganese sulphate, MnSO <sub>4</sub>	Not listed	Not listed	Not listed
Zinc Sulfate Anhydrous	Not listed	Not listed	Not listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	Not listed	Not listed	Not listed
Iron Oxide	Not listed	3	Not listed

**General Information**

**Ingestion:** Very low toxicity for humans and animals  
 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.

**DOT**

**Proper shipping name:** Not DOT regulated

**15. REGULATORY INFORMATION**

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Components	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Ammoniumnitrate, NH <sub>4</sub> NO <sub>3</sub>	6484-52-2	Not Listed	Not Listed
Calciumphosphate, Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub>	7758-87-4	Not Listed	Not Listed
Potassium sulphate, K <sub>2</sub> SO <sub>4</sub>	7778-80-5	Not Listed	Not Listed
Ammonium Phosphate	7722-76-1	Not Listed	Not Listed
Sulphur, S	7704-34-9	Not Listed	Not Listed
Magnesiumsulphate, MgSO <sub>4</sub>	7487-88-9	Not Listed	Not Listed
Magnesiumoxide, MgO	1309-48-4	Not Listed	Not Listed
Manganese Oxide	1344-43-0	Not Listed	Not Listed
Manganese sulphate, MnSO <sub>4</sub>	7785-87-7	Not Listed	Not Listed
Zinc Sulfate Anhydrous	7733-02-0	1000 lb final RQ 454 kg final RQ	Not Listed
Ferrous Sulfate Monohydrate (Iron Sulfate)	17375-41-6	Not Listed	Not Listed
Iron Oxide	1309-37-1	Not Listed	Not Listed

**General Information**

Contact local authorities for disposal of large quantities of product

**16. OTHER INFORMATION****NFPA:** Health: 1 Flammability: 0 Reactivity: 0**HMIS:** Health: 1 Flammability: 0 Reactivity: 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.

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