

MATERIAL SAFETY DATA SHEET

Date stamp: 17-May-2012

MSDS Ref. No.: 90550C

Revision Number: NOT AUTHORIZED

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Scotts® Osmocote® 14-14-14 3-4 Month Controlled Release Fertilizer

Description: Slow Release 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: 1-800-492-8255

Formula No.: S11014

Product Number(s): 90550C

2. HAZARDS IDENTIFICATION

Classification

WHMIS hazard class: D2B Toxic materials

Labelling

Signal word: CAUTION

Precautionary Statements

Do not ingest. Do not inhale. May cause eye/skin irritation. Avoid contact with eyes, skin, and clothing. Wear safety glasses. Rubber gloves. Keep out of reach of children.

Potential health effects

Eye contact: Contact with eyes may cause irritation.

Skin contact: Irritation possible.

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

Inhalation: Considered practically non-toxic. May cause irritation of respiratory tract.

Aggravated Medical Conditions:

Inhalation may aggravate asthma.

Principle routes of exposure:

Skin. Ingestion.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS-No	Weight %
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	15-40
Potassium sulphate, K ₂ SO ₄	7778-80-5	15-40
Ammonium phosphate	7722-76-1	10-30
Calciumphosphate, Ca ₃ (PO ₄) ₂	7758-87-4	5-10

4. FIRST AID MEASURES

Eye contact:

Health injuries are not known or expected under normal use. 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.

Skin contact:

Health injuries are not known or expected under normal use. 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:

Health injuries are not known or expected under normal use. 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:

Health injuries are not known or expected under normal use. 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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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 explosion risk.
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 cool, well-ventilated place

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients	ACGIH:	OSHA:
Potassium sulphate, K2SO4	Not Listed	Not Listed
Calciumphosphate, Ca3(PO4)2	Not Listed	Not Listed
Ammonium nitrate, NH4NO3	N.A.	N.A.
Ammonium phosphate	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: 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:** Tan, Brown
Bulk density: 60-65 lbs/cu.ft. **Flash point:** Not applicable
Appearance: Granular

10. STABILITY AND REACTIVITY

Chemically Stable: Yes
Conditions to avoid Damp or wet conditions. Extreme heat.
Materials to avoid: Oxidizing agent.
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.

Component information

Ingredients	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ammonium nitrate, NH ₄ NO ₃	2217 mg/kg Rat	No information available	88.8 mg/L Rat 4 h
Potassium sulphate, K ₂ SO ₄	6600 mg/kg Rat	No information available	No information available
Ammonium phosphate	5750 mg/kg Rat	7940 mg/kg Rabbit	No information available
Calciumphosphate, Ca ₃ (PO ₄) ₂	No information available	No information available	No information available

Chronic toxicity

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

Ingredients	NTP:	IARC:	OSHA:
Potassium sulphate, K ₂ SO ₄	Not listed	Not listed	Not listed
Calciumphosphate, Ca ₃ (PO ₄) ₂	Not listed	Not listed	Not listed
Ammonium nitrate, NH ₄ NO ₃	Not listed	Not listed	Not listed
Ammonium phosphate	Not listed	Not listed	Not listed

General Information

Ingestion:

Inhalation:

Sensitization:

Very low toxicity for humans and animals.

Health injuries are not known or expected under normal use

Health injuries are not known or expected under normal use

None

12. ECOLOGICAL INFORMATION

Ecotoxicity effects:

Persistence and degradability:

Bioaccumulative potential:

Mobility:

Aquatic toxicity:

Additional ecological information:

No data is available on the product itself.

Inherently biodegradable. Non-persistent.

Does not bioaccumulate.

Slightly water contaminating.

May be beneficial to plant life.

Do not apply directly to lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods:

Contaminated packaging:

Apply as fertilizer to field. Dispose of in accordance with local regulations and national regulations.

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 (Land)

DOT (AIR)

DOT (Vessel)

Not DOT regulated

Not DOT regulated

Not DOT regulated

15. REGULATORY INFORMATION

Ingredients	CAS-No	CERCLA/SARA 313	CERCLA/SARA 302
Potassium sulphate, K ₂ SO ₄	7778-80-5	Not Listed	Not Listed
Calciumphosphate, Ca ₃ (PO ₄) ₂	7758-87-4	Not Listed	Not Listed
Ammonium nitrate, NH ₄ NO ₃	6484-52-2	Not listed	Not Listed
Ammonium phosphate	7722-76-1	Not Listed	Not Listed

General Information

Contact local authorities for disposal of large quantities of product

16. OTHER INFORMATION

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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.

Prepared by: Regulatory Affairs Department.

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