

MATERIAL SAFETY DATA SHEET

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Scotts® Osmoform® 18-5-13 (2-3 Month Formulation)

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Scotts® Osmoform® 18-5-13 (2-3 Month Formulation)

MANUFACTURER

The Scotts Company
 Earthgro-Hyponex-Miracle Gro
 Scotts-Scotts Lawn Service-Scotts Sierra-
 Swiss Farms
 14111 Scottslawn Road
 Marysville, OH 43041

PN: S10391

24 HR. EMERGENCY TELEPHONE NUMBERS

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Urea	57-13-6	None	None
Ammonium Sulfate	7783-20-2	None	None
Calcium Phosphate	1306-06-5	None	None
Potassium Sulfate	7778-80-5	None	None
Magnesium Sulfate	7487-88-9	None	None
Boric Acid	10043-35-3	None	None
Copper Sulfate	7758-98-7	None	1 mg (Cu)/m3
Iron Sulfate Heptahydrate (Ferrous Sulfate)	7782-63-0	1 mg (Fe)/m3	1 mg (Fe)/m3
Iron EDTA	15708-41-5	None	None
Manganese Sulfate	7785-87-7	5 mg (Mn)/m3	5 mg (Mn)/m3
Sodium Molybdate	7631-95-0	5 mg/m3	5 mg/m3
Zinc Sulfate	7733-02-0	None	None
Nuisance Dust		15 mg/m3	3 mg/m3

COMMENTS: This product is not considered to be hazardous in accordance with the OSHA Hazard Communication Standard, 29 CFR 1919.1200, Health Hazard. Thus, no Material Safety Data Sheet is required. See product label for ingredients and product-specific Consumer Services telephone numbers.

The ACGIH Threshold Limit Values (TLV) for nuisance (inert) dusts containing < 1% crystalline silica and no asbestos are: 10 mg/m3 inhalable particulates and 3 mg/m3 respirable particulate. The OSHA TLV is 15 mg/m3 total dust, 5 mg/m3 respirable fraction.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: Follow precautionary product label information.

General Considerations: Avoid breathing dusts or mists by using adequate ventilation. Reduce material contact by wearing gloves when handling material for extended periods or by washing hands after use. Minimize material contact during application of lawn/garden products by wearing long pants, shoes, and socks. Avoid eye contact with any foreign body and do not ingest

product. Keep out of reach of children.

POTENTIAL HEALTH EFFECTS

EYES: May cause eye irritation.

SKIN: May cause skin irritation.

INGESTION: Possible nausea, vomiting, and diarrhea. Swallowing large doses causes severe gastrointestinal tract effects.

INHALATION: Inhalation of dusts or aerosols may aggravate asthma.

ROUTES OF ENTRY: Ingestion, skin, inhalation, and eyes.

4. FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

SKIN: 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: If swallowed, call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. 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.

COMMENTS: See product label for specific First Aid Measures. The above measures are the most conservative and would apply in the event a product label is not immediately available.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water fog or spray.

EXPLOSION HAZARDS: Explosive conditions may exist when a high airborne concentration of fertilizer or organic material occurs in an enclosed area.

FIRE FIGHTING PROCEDURES: Use self-contained air supply.

HAZARDOUS DECOMPOSITION PRODUCTS: In a fire, fertilizer products may produce ammonia and toxic oxides of carbon, nitrogen, potassium, phosphorous, and/or sulfur.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Use good housekeeping practices. Sweep up spills. As a general practice, avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove to approved landfill. See label for specific disposal procedures.

7. HANDLING AND STORAGE

HANDLING: See label. Wash hands with soap and water after handling product. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Keep out of lakes, streams or ponds, KEEP OUT OF REACH OF CHILDREN.

STORAGE: See label. KEEP OUT OF REACH OF CHILDREN. Avoid container breakage. Store in cool, dry area in closed container or package. Keep away from feed or foodstuffs.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Use adequate ventilation to keep the airborne concentrations of this material below the recommended

exposure standard.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: See label. Protective eye wear is typically not required for normal product use.

SKIN: See label. No special protective clothing is necessary under normal use conditions. Gardening gloves are suggested for repeated handling of lawn care products. Applicators should wear long-sleeved shirt, long pants, shoes, and socks.

RESPIRATORY: See label. No special respiratory protection is required under normal use conditions. However, if operating conditions create high airborne concentrations of product, a dust mask, or other appropriate respiratory protection is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

APPEARANCE: Granular mixture.

pH: Not Available

SOLUBILITY IN WATER: Unknown

DENSITY: Not Available

OXIDIZING PROPERTIES: Not considered to be an oxidizer.

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: See label. Keep away from heat, sparks, and open flames.

STABILITY: Stable

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Nitrates are incompatible with strong alkalis and reducing agents, active metals (such as aluminum and magnesium), ammonia, organic, and combustible materials. Urea is incompatible with strong oxidizers, alkalis, sodium nitrite, and chlorine compounds (including bleach and similar household cleaning products). See product label for ingredients and storage precautions.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: IARC: No; NTP: No; OSHA: No

GENERAL COMMENTS: There are limited data regarding this product. Exposure to this product can occur by eye and skin contact, ingestion, or inhalation of dusts. Eye contact may cause slight, temporary irritation as a foreign body in the eye. Skin contact may cause mild irritation in susceptible individuals. Ingestion may cause nausea, vomiting along with mild irritation to the mouth, throat, esophagus and stomach. High dust concentrations may cause mild respiratory tract irritation with coughing and nasal discharge. However, product coating is expected to minimize exposure. The materials contained in this product are considered to have low toxicity by the expected routes of exposure.

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS: This fertilizer contains molybdenum (Mo). The application of fertilizing materials containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Apply as fertilizer to field. If product is contaminated, dispose of in an approved landfill disposal facility, in accordance with applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)**PROPER SHIPPING NAME:** Not DOT regulated.**SPECIAL SHIPPING NOTES:** The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

15. REGULATORY INFORMATION**GENERAL COMMENTS:** Contact local authorities for proper disposal of large quantities of unused product.

16. OTHER INFORMATION**REVISION SUMMARY** Revision #: 1

This MSDS replaces the January 11, 2002 MSDS. Any changes in information are as follows:

In Section 3

Potential Health Effects - Ingestion Routes of Entry

In Section 9

Physical State Code Appearance (Group Field) for pH (Group Field) for Water Solubility Water Solubility (Group Field) for Density Oxidizing Properties

In Section 11

Carcinogenicity Toxicological

In Section 12

Ecotoxicological Information Ecological

In Section 13

Disposal

In Section 16

NFPA Flammability NFPA Health NFPA Reactivity General Statements NFPA Classification

NFPA CODES**HEALTH:** 1 **FIRE:** 0 **REACTIVITY:** 0**NFPA STORAGE CLASSIFICATION:** NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.**MANUFACTURER DISCLAIMER:** The information contained herein is, to the best of the Manufacturer's (see Section 1) 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 the Manufacturer 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, the Manufacturer 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.**GENERAL STATEMENTS:** 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.