

MATERIAL SAFETY DATA SHEET

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Miracle-Gro® Tree & Shrub Fertilizer Spikes 15-5-10

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Miracle-Gro® Tree & Shrub Fertilizer Spikes 15-5-10

PRODUCT DESCRIPTION: Fertilizer Spikes with MicroMax® Nutrients

MANUFACTURER

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

PN: S10622

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>
Ammonium Sulfate	7783-20-2	None	None
Ammonium Phosphate	7722-76-1	None	None
Potassium Chloride	7447-40-7	None	None
Iron Oxide	1309-37-1	10 mg (Fe)/m3	5 mg (Fe)/m3
Manganese Oxide	1344-43-0	5 mg (Mn)/m3	5 mg (Mn)/m3
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. This document serves as a guide for a range of Scotts/ORTHO product classes: LAWN FERTILIZER/COATED FERTILIZER (POLY-S®, OSMOCOTES®)/WATER SOLUBLE FERTILIZER-LIQUID PLANT FOOD/PLANT FOOD STICKS & PLANTING TABLETS, SOIL, POTTING MIX, LAWN TOPPING, HUMUS, COMPOST, MANURE, MULCH, BARK, PERLITE, STONE/ROCK, SEED PATCH, INSECT TRAPS, ATTRACTANTS, REPELLANTS, and other like products. 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 cautionary 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 in persons having a pre-existing skin condition.

INGESTION: If swallowed, product is considered practically non-toxic.

INHALATION: Inhalation of dusts or aerosols may aggravate asthma.

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

APPEARANCE: Fertilizers are typically off-white, tan, to light brown in color, or may contain blue/yellow/green dye coloration. Physical characteristics range from powders, granules (may contain prills), to coated beads, pellets, or sticks. Potting soils have an earth-tone, barks and mulches may be red-brown to dark brown, while manures are characteristically deep brown to black.

COMMENTS:

WATER SOLUBILITY: Powdered water soluble fertilizers are typically in the range of 3 lb. 5 oz. to 4 lb. 5 oz. per gal. (approximately 80-90%). See product label for product-specific solubility limits and mixing recommendations.

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

GENERAL COMMENTS: Toxicology information is limited for this product. Inhalation of dust may irritate nose, throat, and lungs. Eye contact with solids may produce irritation, tearing, or blinking as a foreign body in the eye.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: See label. Keep out of lakes, streams, or ponds.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose in normal waste disposal. Do not reuse empty container. See label for specific product disposal recommendations.

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 New MSDS

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.