

# MATERIAL SAFETY DATA SHEET

Date-Issued: 05/01/2002  
MSDS Ref. No: 95720  
Date-Revised: 05/07/2002  
Revision No: New MSDS

Scotts® Rout® Ornamental Herbicide

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## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Scotts® Rout® Ornamental Herbicide  
**PRODUCT DESCRIPTION:** Ornamental Herbicide

### MANUFACTURER

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

**EPA REG. NO.:** 58185-27 **PN:** S9315

### 24 HR. EMERGENCY TELEPHONE NUMBERS

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

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS#</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Oxyfluorfen	42874-03-3	None	None
Oryzalin	19044-88-3	None	None

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

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## 3. HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

#### IMMEDIATE CONCERNS: - CAUTION

- Avoid contact with eyes, skin, or clothing.
- May cause skin and eye irritation.
- Harmful if swallowed.
- Do not inhale dust.
- KEEP OUT OF REACH OF CHILDREN AND PETS.

### POTENTIAL HEALTH EFFECTS

**EYES:** May cause eye irritation.

**SKIN:** May cause skin irritation.

**INGESTION:** May be harmful if swallowed.

**INHALATION:** Remove to fresh air.

**MEDICAL CONDITIONS AGGRAVATED:** Skin contact may cause allergic reaction in sensitive individuals. Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to effects of substance.

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

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## 4. FIRST AID MEASURES

**EYES:** 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:** 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 a glass of water if able to swallow. Do not induce vomiting unless told to by the 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

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 - Pesticide Registration (PR) Notice 2000-3 - April 11, 2000 - and apply in the event a product label is not immediately available.

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## 5. FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Dry chemical, water spray, CO<sub>2</sub>.

**EXPLOSION HAZARDS:** May form an explosive dust/air mixture.

**FIRE FIGHTING PROCEDURES:** Evacuate area. Flood with water. To fight large fires, wear full protective clothing and NIOSH approved self-contained breathing apparatus with full-facepiece operated in the pressure/demand mode.

**FIRE FIGHTING EQUIPMENT:** Fire-fighters must wear self-contained breathing apparatus.

**HAZARDOUS DECOMPOSITION PRODUCTS:** In fire, may produce irritating gases & vapors.

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## 6. ACCIDENTAL RELEASE MEASURES

**LARGE SPILL:** Extinguish all ignition sources, Ventilate area. Cleanup personnel require protective clothing and respiratory protection.

### ENVIRONMENTAL PRECAUTIONS

**WATER SPILL:** Do not allow to contaminate water supply.

**GENERAL PROCEDURES:** Avoid dusting or misting condition during cleanup. If material is uncontaminated, collect and reuse as recommended for product. If contaminated, put in appropriate container and dispose according to local, state, or Federal regulations. Keep spills away from drinking water supplies. After spill cleanup, flush area with water. Read label

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## 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** PESTICIDE APPLICATORS AND WORKERS must use this product only in accordance with its labeling and with the Worker Protection standard, 40 CFR part 170. This standard contains requirements for the protection of agriculture workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. The requirements that immediately follow apply to uses of this product that are covered by the Worker Protection Standard: 1.) Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours; 2.) PPE required for early entry to treated areas that is permitted under the Worker Protection act Standard and that involves contact with anything that has been treated, such as plants, soil, or water is: coveralls over long-sleeved shirt and long pants; chemical resistant gloves, chemical resistant footwear plus socks, and chemical resistant headgear for overhead exposure. For non-agriculture uses: 1.) KEEP CHILDREN AND PETS out of treated areas until dusts have settled; 2.) Do not enter treated areas without protective clothing.

**HANDLING:** See label. Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 hours. 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. Protect from water & extreme heat.

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## 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:** Use of chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible is recommended. Running water/eyewash station should be available in case material get in eyes.

**SKIN:** Read and follow label instructions. Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves, chemical-resistant headgear for overhead exposure, chemical-resistant apron (mixers and loaders) and shoes plus socks.

**RESPIRATORY:** Use a NIOSH approved pesticide respirator (combination organic vapor cartridge and pesticide particulate pre-filter) for exposures up to concentrations of 0.5 mg/m<sup>3</sup>. For greater exposures, use a self-contained breathing apparatus operated in the pressure/demand mode. Read and follow label instructions.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** Granular  
**ODOR:** Musty  
**COLOR:** Orange.  
**VAPOR PRESSURE:** Oryzalin= $<1 \times 10^{-7}$ ; Oxyfluorfen= $<2 \times 10^{-6}$   
**MELTING POINT:** Oryzalin=141° to 142° C; Oxyfluorfen=65° to 84° C  
**SOLUBILITY IN WATER:** Soluble

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## 10. STABILITY AND REACTIVITY

**STABLE:** YES

**HAZARDOUS POLYMERIZATION:** NO

**CONDITIONS TO AVOID:** Protect from moisture and heat.

**POLYMERIZATION:** Will not occur

**HAZARDOUS DECOMPOSITION PRODUCTS:** High temperatures of fire may produce irritating gases & vapors.

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## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**DERMAL LD<sub>50</sub>:** >2000 mg/kg (rabbit).

**ORAL LD<sub>50</sub>:** >5000 mg/kg (rat).

**INHALATION LC<sub>50</sub>:** LC50-4hr (rat): >2.03 mg/l air.

**EYE EFFECTS:** Moderate Irritation (rabbit).

**SKIN EFFECTS:** Slightly irritating (rabbit).

**SENSITIZATION:** Not a dermal sensitizer.

### CARCINOGENICITY:

**IARC:** No

**NTP:** No

**OSHA:** No

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## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** This product is toxic to fish and wildlife. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not graze or feed forage from treated fields or orchards, to livestock.

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## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Read label. Disposal must be in accordance with Federal, state, and local regulations. Do not re-use empty container. Dispose of container in an approved waste facility or by incineration, or, if allowed by State and local authorities, by burning. If container is burned, stay out of smoke.

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## 14. TRANSPORT INFORMATION

### DOT (DEPARTMENT OF TRANSPORTATION)

**PROPER SHIPPING NAME:** This product is not DOT regulated when transported over land in non-bulk packaging.

**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.

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## 15. REGULATORY INFORMATION

**GENERAL COMMENTS:** Read label. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office on guidance for disposal. Do not contaminate water, food or feed by disposal. Open dumping is prohibited. Dispose of container in an approved waste facility.

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## 16. OTHER INFORMATION

### REVISION SUMMARY New MSDS

### NFPA CODES

**HEALTH: 2    FIRE: 1    REACTIVITY: 1**

**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.

**ADDITIONAL MSDS INFORMATION:** NFPA Hazard Rating: 0=Least; 1=Slight; 2=Moderate; 3=High; 4=Severe.

**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.

**COMMENTS:** 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.