



Material Safety Data Sheet

MSDS No.	3025	Issue Date : June 2007	ISSUED by SCOTTS AU
Product Name :	ROUT ORNAMENTAL HERBICIDE		

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name ROUT ORNAMENTAL HERBICIDE
Product Code 9000A, 9010A
Manufacturer SCOTTS AUSTRALIA PTY LTD
Address 11 Columbia Way Baulkham Hills
NSW 2153 Australia
Emergency Tel. 1800 033 111
Telephone/Fax Tel:(02) 8853 7300
Number Fax:(02) 8853 7310
Recommended Use Pre-emergent herbicide

2. HAZARDS IDENTIFICATION

Hazard Classification Australia:
Not classified as hazardous according to NOHSC. Not classified as dangerous goods according to the ADG Code.
New Zealand:
Classified as hazardous according to New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001.
Not classified as dangerous goods for transport according to the New Zealand Standard NZS 5433:1999 Transport of Dangerous Goods on Land.
HSNO classifications:
6.9B- Substance that is harmful to human target organs or systems
9.1B- substance that is ecotoxic in the aquatic environment.
9.2A- substance that is ecotoxic in the soil environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion Ingredients
	Oxyfluorfen	42874-03-3	2%
	Oryzalin	19044-88-3	1%
	Attapulgate clay	70131-50-9	>90%
	Aromatic solvent	68477-31-6 or 64742-94-5 or 64742-95-6	<6%

4. FIRST AID MEASURES

Inhalation Move person to fresh air. If person is not breathing, call 000 for an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a doctor or Poisons Information Line for further treatment advice on 13 11 26 (Australia) or 0800 764 766 (New Zealand).

Ingestion If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia) or 0800 764 766 (New Zealand).
Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Skin If on skin or clothing, remove any contaminated clothing, and wash skin thoroughly with soap and water.

Eye Hold eyes open and flush with plenty of water for at least 15 minutes.
See a doctor if irritation persists.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Dry chemical extinguisher or carbon dioxide.

Hazards from Combustion Products None known, but protect against inhalation of combustion products by using approved self-contained breathing apparatus in positive pressure mode.

Special Protective Equipment for fire In the event of a fire, wear self-contained breathing apparatus.



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fighters

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures In the case of spillage contain spilled material and sweep or shovel up. If suitable, return product to bag. Otherwise dispose of waste as indicated below or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Wear prescribed protective clothing and equipment. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with a suitable solution [i.e. organic solvent, detergent, bleach or caustic] and add the solution to the drum/s of wastes already collected. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.
Toxic to wildlife and fish. Do not allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

7. HANDLING AND STORAGE

Precautions for Safe Handling Read label. Avoid container breakage. Avoid inhalation or contact with skin, eyes, or clothing. Wash hands before eating, drinking, smoking or going to the toilet.
Conditions for Safe Storage Store in the closed original container, in a dry, cool well ventilated area out of direct sunlight. Keep out of reach of children and animals. Do not locate near food or feed by storage or disposal. Protect from moisture and heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure standards have been set for either active ingredient in this product.
Biological Limit Values None allocated
Engineering Controls Thoroughly ventilate all transport vehicles prior to unloading. General air replacement or dilution ventilation is sufficient for material handling and storage, but local exhaust ventilation should be used when filling or emptying this product. Work in well ventilated areas. Do not breathe dust.
Respiratory Protection For dusting exposure wear a half face dust mask.
Eye Protection Where potential for dusting or direct eye contact exists, wear goggles or safety glasses. Eye wash facilities should be located nearby. Avoid contact with the eyes.
Hand and body Protection Wear gloves when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Brown & yellow granules
Odour Naphthalene odour
Melting Point Oxyfluorfen 65°C-85°C Oryzalin 141°C-142°C
Boiling Point Not known
Solubility in Water Not soluble
pH Value Not available
Vapour Pressure Oxyfluorfen 2 x 10⁻⁶ Oryzalin <1 x 10⁻⁷
Vapour Density (Air=1) Not available
Density 0.66
Decomposition temperature Not available



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Flammable Limits - Lower Not available

Flammable Limits - Upper Not available

10. STABILITY AND REACTIVITY

Chemical Stability Stable under recommended storage conditions. Protect from moisture and heat.

Conditions to Avoid None known

Incompatible Materials None known

Hazardous Decomposition Products None known, but protect against inhalation of combustion products using approved self-contained breathing apparatus in positive pressure mode.

11. TOXICOLOGICAL INFORMATION

Inhalation The product has low inhalation toxicity. Vapours from heated material may cause irritation of the nose and throat.

Ingestion Moderately toxic.

Skin The product is not a skin irritant, however repeated contact may lead to an allergic reaction.

Eye The product is moderately irritating to the eye.

Chronic Effects None known

Animal toxicity data For ROUT

Acute Dermal LD50 [Rabbit] >2000 mg/kg

Acute Oral LD50 [Rat] >5,000 mg/kg

Acute Inhalation LC50 [Rat - 1 hour] >7 mg/L

For oxyfluorfen

Acute Oral LD50 [Rat] = >5000 mg/kg

Acute Dermal LD50 [Rabbit] = >10,000 mg/kg

LC50 [96 hr] freshwater fish 0.2-0.4 mg/L

EC50 [48hr] Daphnia magna 0.07 mg/L

LD50 Oral [Bird] 2200 mg/kg

Bee - non toxic

For oryzalin

Acute Oral LD50 [Rat] >10,000 mg/kg

LC50 Bluegill Fish 2.88 mg/L

LD50 Oral [Bird] >1,000 mg/kg [hen]

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to wildlife and fish.
Oxyfluorfen- nearly insoluble in water, tightly bound to soil. Not readily metabolised in plants. Microbial degradation is minimal. Photodecomposition is rapid in water but slow in soil.

Oryzalin- water solubility at pH 7 is 2.5 ppm at 25°C. Binds strongly to soil particles and will usually remain in the top 15 cm of soil profile. Broken down by microbial action. Photodecomposition is rapid in water. Oryzalin is not hydrolysed.

Persistence / Degradability Oxyfluorfen- soil photolysis half-life 20-30 days. Water photolysis half-life 5 days. The product is not used on edible plants. Oryzalin does not bioaccumulate. The risk of oxyfluorfen bioaccumulating in aquatic species is high.

Mobility No information available.

Environ. Protection Do not contaminate water with the product or used containers or when cleaning equipment. Do not use the product where fauna are foraging and are likely to feed on granules.

13. DISPOSAL CONSIDERATIONS



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Product Name : **ROUT ORNAMENTAL HERBICIDE**

Disposal Considerations Use product up completely. Shake containers empty onto treatment site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

14. TRANSPORT INFORMATION

Transport Information Not classified as dangerous goods according to the Australian Dangerous Goods Code.

15. REGULATORY INFORMATION

Regulatory Information Australia:
APVMA registration number 31548.
New Zealand:
ERMA approval number: HSR000539.
Controls:6.9B, 9.1B, 9.2A
ACVM approval number: P4584
Poisons Schedule Unscheduled.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Created: June 2007

Contact Person/Point	Scotts Australia Pty Ltd 11 Columbia Way Baulkham Hills NSW 2153 Phone (02) 8853 7300 Fax (02) 8853 7310 Emergency phone 1800 033 111 ...End Of MSDS...	New Zealand: 180c Great South Rd Takanini, Auckland Phone (09) 299 6558 Fax (09) 296 0186 Emergency phone 0800 734 607
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