

Material Safety Data Sheet

Print Date: 15-May-2014

Revision Number: 1

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product trade name: **Rout Ornamental Herbicide**
Recommended Use: Pre-emergent herbicide

Proper shipping name: Not regulated for transport by road or rail.

Supplier: Everris Australia Pty Ltd, 211/33 Lexington Drive, Bella Vista, NSW 2153, Australia. Tel: +61(2) 8801 3300

Australian Business Number: 31 003 123 162

Emergency telephone number: Australia: (02) 801 44558
New Zealand: (09) 992 91483

2. HAZARD(S) IDENTIFICATION

Australia:

Australia Hazardous Statement:

Hazardous according to health criteria of NOHSC Australia

Australia Road and Rail Transport:

Classified as not Dangerous goods for transport by road or rail (ADG Code 7). Exempt from classification as a Dangerous Good as per ADG7, SP no. AU01. For bulk shipments as Class 9, use UN 3077, Hazchem code 2Z.

Poisons schedule No. (Aust)/Toxic Substance (NZ)

No information available



6.9B (oral), 9.1B (fish), 9.1B (algal), 9.1C (crustacean), 9.2B
GHS Signal word: Warning

Hazard Statements

H373 May cause damage to the liver and the hematopoietic system.
H411 Toxic to aquatic life with long lasting effects.
H422 Toxic to the soil environment.

Prevention

P103 Read label before use.
P260 Do not breathe dust.
P273 Avoid release to the environment.

Response

P314 Get medical advice if you feel unwell.
P391 Collect spillage.

Disposal

P501 Dispose of contents and containers as specified on the label.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>CAS-No</u>	<u>Weight %</u>
Oxyfluorfen	42874-03-3	<10%
Oryzalin	19044-88-3	<10%
Attapulgate clay	70131-50-9	>60%
Aromatic solvent	64742-94-5	<10%

4. FIRST-AID MEASURES

4.1. Description of first aid measures**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.

Inhalation:

Do not breathe dust. 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).

Skin Contact:

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

Eye Contact:

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

Protection of First-Aiders:

No action shall be taken involving any personal risk or without suitable training.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Dry chemical extinguisher or carbon dioxide.

Unsuitable extinguishing media:

No information available.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

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

Special Protective Equipment for Firefighters:

Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazchem Code: 2Z

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Wear prescribed protective clothing and equipment. Keep out animals and unprotected persons.

Environmental Precautions:

Toxic to aquatic life with long lasting effects. Do not allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways. Toxic to the soil environment. Collect spillage.

Methods for Cleanup:

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.

7. HANDLING AND STORAGE

Precautions for Safe Handling:**Technical measures/precautions:**

Read label before use. Avoid container breakage.

Safe handling advice:

Do not breathe dust. Avoid contact with skin, eyes, or clothing.
Wash hands before eating, drinking, smoking or going to the toilet.

Conditions for Safe Storage**Technical measures/storage conditions:**

Store in the original container. Keep containers tightly closed in a cool, well-ventilated place 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.

Incompatible products:

No information available

Specific use(s):

Pre-emergent herbicide

Poison Schedule Notes:

If poisoning occurs, contact a doctor or Poisons Information Centre.
Phone Australia 13 1126

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National occupational exposure limits:

No exposure standards have been set for either active ingredient in this product.

Engineering Measures to Reduce Exposure: 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.

Personal protective equipment

Respiratory Protection: For dusting exposure wear a half face dust mask.

Hand protection: Wear gloves when handling this product.

Eye/Face 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.

General hygiene considerations: Wash hands before breaks and immediately after handling the product

9. PHYSICAL AND CHEMICAL PROPERTIES

General information:

Physical State: Solid
Appearance: Brown and yellow granules
Odour: Naphthalene odour

Important Health Safety and Environmental Information

Melting point/range: Oxyfluorfen 65°C-85°C Oryzalin 141°C-142°C
Vapour pressure: Oxyfluorfen 2×10^{-6} Oryzalin $<1 \times 10^{-7}$
Vapour density: No information available
Explosive properties: Doesn't present explosion hazard.
Flammability (solid, gas): Non-flammable

Other Information:

pH: No information available
Viscosity: not applicable
Density: 0.66

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under recommended storage conditions

Conditions to Avoid: Keep away from moisture during storage.

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

Hazardous reactions None reasonably foreseeable.

11. TOXICOLOGICAL INFORMATION

Local effects

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

Eye effects:	Contact with eyes may cause irritation.
Inhalation:	The product has low inhalation toxicity. Vapours from heated material may cause irritation of the nose and throat.
Ingestion:	May cause damage to the liver and hematopoietic system.

12. ECOLOGICAL INFORMATION

Aquatic toxicity:

LC50/96h/Bluegill sunfish (Oxyfluorfen) = 0.2 mg/L.
LC50/48hr/Daphnia (Oxyfluorfen) = 1.5 mg/L
EC50/96hr/Scenedesmus acutus (Oxyfluorfen) = 5.04 mg/L
LC50/96h/Gammarus fasciatus (Oryzalin) = 0.19 mg/L.
LC50/48hr/Daphnia magna (Oryzalin) = 1.5 mg/L
EC50/96hr/Duckweed (Oryzalin) = 0.015 mg/L

Toxic to aquatic life with long lasting effects. Toxic to the soil environment.

Persistence and 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.

Bioaccumulative potential: 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 in soil: No information available

Environmental Protection: Avoid release to the environment. 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. Collect spillage.

13. DISPOSAL CONSIDERATIONS

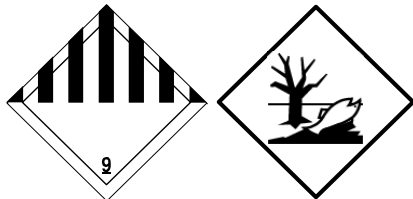
Waste Disposal Methods: Use product up completely. Shake containers empty onto treatment site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear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

14. TRANSPORT INFORMATION

ADR/RID Classified as not Dangerous goods for transport by road or rail (ADG Code 7). Exempt from classification as a Dangerous Good as per ADG7, SP no. AU01.

IMDG/IMO

Classified as Dangerous Goods for the purpose of transport by sea. Refer to relevant regulations for storage and transport requirements.



UN-No. 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Oryzalin, Oxyfluorfen)
Class: 9
Packing group: III

ICAO

Classified as Dangerous Goods for the purpose of transport by air. Refer to relevant regulations for storage and transport requirements.

UN-No. 3077
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Oryzalin, Oxyfluorfen)
Class: 9
Packing group: III

General information:

Hazchem code: 2Z

15. REGULATORY INFORMATION

Hazardous according to health criteria of NOHSC Australia

International Inventories:

Australian Inventory of Chemical Substances
Poisons schedule No. (Aust)/Toxic Substance (NZ)

This product is not classified by AICS
 No information available



APVMA Approval Number: 31548

16. OTHER INFORMATION

Preparation Date: 15-May-2014

Prepared by: Regulatory Affairs Department, Everris Australia Pty Ltd. Suite 211, 33 Lexington Drive, Bella Vista, Australia. Phone +61 (0)2 8801 3300.

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End of Safety Data Sheet