

# Safety Data Sheet

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## Section 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

### Product Identifier:

**Product Name** Rout Ornamental Herbicide

**Product ID:** P70000AU

### Other Means of Identification:

**Proper shipping name** Not regulated

**UN Number** Not regulated

### Recommended Use of the Chemical and Restrictions on Use:

**Recommended Use** Fertilizer (PC12). Restricted to professional users.

### Details of manufacturer or importer

#### Manufacturer

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

#### Emergency Telephone Numbers:

Australia: (02) 8014 4558

New Zealand: (09) 9929 1483

## Section 2: HAZARD(S) IDENTIFICATION

### GHS - Classification

Mixture

skin corrosion/irritation	Category 2 (H316)
Specific Target Organ Toxicity (Repeated Exposure)	Category 2 (H373)
Acute aquatic toxicity	Category 3 (H412)

### Label elements



### **Signal word**

Warning

### **Hazard statements**

H316 - Causes mild skin irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

H423 - Harmful to the soil environment

### **Precautionary Statements - Prevention**

P103 - Read label before use

P332 + P313 - If skin irritation occurs: Get medical advice/attention  
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray  
 P273 - Avoid release to the environment  
 P314 - Get medical advice/attention if you feel unwell  
 P501 - Dispose of container in accordance with local regulation

**Other hazards**

New Zealand HSNO: 6.3B, 6.9B, 9.1C, 9.2C

### Section 3: COMPOSITION AND INFORMATION ON INGREDIENTS IN ACCORDANCE WITH SCHEDULE 8

**Substance**

Chemical Name	CAS No	EC-No.	Weight %	Classification according Regulation (EC) 1272/2008 [CLP]	REACH registration number
Other ingredients (US)	No CAS#	231-153-3	> 60%		
Oxyfluorfen (US)	42874-03-3	255-983-0	1 - 5%	Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	
Oryzalin (US)	19044-88-3		1 - 5%		

0% of the other ingredients are determined not be hazardous.

### Section 4: FIRST AID MEASURES

**First Aid Measures:****General advice**

First aid measures should be executed by trained personnel only.

**Inhalation**

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.

**Eye contact**

In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Skin Contact**

Take off contaminated clothing. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion**

If swallowed, call a poison control center or physician immediately. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

**Most Important Symptoms and Effects (Acute and Chronic):****Symptoms**

No information available.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:****Note to physicians**

Treat symptomatically.

### Section 5: FIREFIGHTING MEASURES

**Suitable Extinguishing Media****Suitable Extinguishing Media**

Dry chemical, CO2, water spray or alcohol-resistant foam.

**Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams.

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Special protective actions for fire-fighters**

**Special protective equipment for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

**Personal Precautions, Protective Equipment and Emergency Procedures:**

**Personal precautions** Ensure adequate ventilation. Avoid generation of dust.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental Precautions:**

**Environmental precautions** Do not flush into surface water or sanitary sewer system. Prevent product from entering drains. See Section 12 for additional Ecological Information.

**Methods and Material for Containment and Cleanup:**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **Section 7: HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED**

**Precautions for Safe Handling:**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Use personal protection equipment.

**Conditions for Safe Storage, Including any Incompatibilities:**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Protect from sunlight.

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases. Strong reducing agents.

## **Section 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

**Control Parameters:**

**Appropriate Engineering Controls:**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual Protection Measures, Such as Personal Protective Equipment:**

**Eye/face Protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection:** Wear suitable protective clothing. If there is a risk of contact: Long-sleeved shirt and long pants. Protective shoes or boots.

<b>Hand Protection</b>	Chemical resistant gloves.
<b>Respiratory protection</b>	Effective dust mask. In case of insufficient ventilation wear suitable respiratory equipment.
<b>Environmental exposure controls</b>	Prevent product from entering drains. Avoid creating dust.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties:

<b>Physical State:</b>	Solid
<b>Appearance:</b>	Granules
<b>Color:</b>	orange brown grey
<b>Odor:</b>	Not significant.
<b>Odor Threshold:</b>	No information available

<b>pH:</b>	No information available
<b>Melting Point/Freezing Point:</b>	No information available
<b>Boiling Point/Range:</b>	No information available
<b>Flash Point:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Vapor Pressure:</b>	No information available
<b>Vapour density</b>	No information available
<b>Water Solubility:</b>	negligible
<b>Partition Coefficient:</b>	No information available
<b>Autoignition Temperature:</b>	No information available
<b>Decomposition temperature:</b>	No information available
<b>Kinematic Viscosity:</b>	No information available
<b>Dynamic Viscosity:</b>	No information available

### Other Information

<b>Softening Point:</b>	No information available
<b>Molecular Weight:</b>	No information available
<b>VOC Content (%):</b>	No information available
<b>particle size</b>	
<b>Particle Size Distribution</b>	

## Section 10: STABILITY AND REACTIVITY

**Reactivity:** Not reactive.

**Chemical Stability:** Stable under normal conditions.

### Possibility of Hazardous Reactions:

**Possibility of hazardous reactions** None under normal processing.

**Hazardous Decomposition Products:** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Conditions to Avoid:

**Conditions to avoid** For quality reasons: Keep out of reach of direct sunlight, store under dry conditions, partly used bags should be closed well.

### Incompatible Materials:

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases. Strong reducing agents.

### Hazardous Decomposition Products:

**Hazardous Decomposition** None under normal use conditions.

**Products:****Section 11: TOXICOLOGICAL INFORMATION****Acute Toxicity****Information on the Likely Routes of Exposure (inhalation, ingestion, skin and eye contact):****Product Information**

<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Eye contact</b>	May cause irritation.
<b>Skin Contact</b>	Causes mild skin irritation.
<b>Ingestion</b>	May cause adverse liver effects May cause adverse effects on the bone marrow and blood-forming system

**Symptoms** No information available.

**Numerical Measures of Toxicity - Product Information:**

**Unknown acute toxicity** No information available

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Oxyfluorfen (US)	= 5 g/kg ( Rat )	> 10 g/kg ( Rabbit )	LC50 rat: >3.17mg/l
Oryzalin (US)	= 10000 mg/kg ( Rat )	> 2 g/kg ( Rabbit ) > 2000 mg/kg ( Rabbit )	-

See section 16 for terms and abbreviations

**Delayed and Immediate Effects as well as Chronic Effects from Short and Long-Term Exposure:**

<b>skin corrosion/irritation</b>	Irritating to skin.
<b>Serious eye damage/eye irritation</b>	Irritating to eyes.
<b>Respiratory or skin sensitization</b>	None known.
<b>Germ Cell Mutagenicity</b>	Classification based on individual ingredients of the mixture.
<b>Carcinogenicity</b>	Classification based on individual ingredients of the mixture.
<b>Reproductive Toxicity</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Single Exposure</b>	Classification based on individual ingredients of the mixture.
<b>STOT - Repeated Exposure</b>	Classification based on individual ingredients of the mixture.
<b>Aspiration Hazard</b>	Classification based on individual ingredients of the mixture.

**Section 12: ECOLOGICAL INFORMATION****Ecotoxicity**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
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Oxyfluorfen (US)	-	0.41: 96 h Oncorhynchus mykiss mg/L LC50 0.2: 96 h Lepomis macrochirus mg/L LC50	-	-
Oryzalin (US)	-	3.26: 48 h Oncorhynchus mykiss mg/L LC50	-	-

**Persistence and degradability**

**Persistence and Degradability:** Inherently biodegradable.

**Bioaccumulative potential**

**Bioaccumulation:** No information available.

**Mobility**

**Mobility in soil** After release, adsorbs onto soil.

**Mobility** No information available.

Chemical Name	LOGPOW
Oxyfluorfen (US)	4.7

**Other adverse effects**

**Mobility:** No information available.

Chemical Name	EU - Endocrine Disruptors Candidate List	EU - Endocrine Disruptors - Evaluated Substances
Oryzalin (US)	Group III Chemical	

## Section 13: DISPOSAL CONSIDERATIONS

**Waste Treatment Methods:**

**Waste from residues/unused products** Dispose of in accordance with local regulations. Should not be released into the environment.

**Contaminated packaging** Do not reuse empty containers. Dispose of contents/containers in accordance with local regulations.

## Section 14: TRANSPORT INFORMATION

**ADR/RID:**

**UN Number** Not regulated  
**Proper shipping name** Not regulated

**IATA**

**UN-No:** Not regulated

**IMDG/IMO**

**UN-No:** Not regulated  
**Marine Pollutant:** Not regulated

**Bulk transport according Annex II of MARPOL and IBC Code**  
 No information available

**Section 15: REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****New Zealand:**

Hazardous Substances and New Organisms Act 1996 HSR003254, HSR003418

**Australia**

See section 8 for national exposure control parameters

**International Inventories:**

**TSCA** This product does not comply with USINV

**ENCS** This product does not comply with encs:

**Australian Inventory of Chemical Substances** This product does not comply with AICS

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**International Regulations**

**Ozone-depleting substances (ODS)** Not applied

**Persistent Organic Pollutants** Not applied

**The Rotterdam Convention** Not applied

**Section 16: ANY OTHER RELEVANT INFORMATION**

**Issue Date** 11-Mar-2014

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**Revision Note**

Not applied.

**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Disclaimer**

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**End of Safety Data Sheet**