

Safety Data Sheet

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Version: 1.02

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.

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties:

| | |
|--------------------------------------|--------------------------|
| Physical State: | Solid |
| Appearance: | Granules |
| Color: | orange brown grey |
| Odor: | Not significant. |
| Odor Threshold: | No information available |
| pH: | No information available |
| Melting Point/Freezing Point: | No information available |
| Boiling Point/Range: | No information available |
| Flash Point: | No information available |
| Evaporation Rate: | No information available |
| Flammability (solid, gas): | Non-flammable |
| Vapor Pressure: | No information available |
| Vapour density | No information available |
| Water Solubility: | negligible |
| Partition Coefficient: | No information available |
| Autoignition Temperature: | No information available |
| Decomposition temperature: | No information available |
| Kinematic Viscosity: | No information available |
| Dynamic Viscosity: | No information available |

Other Information

| | |
|-----------------------------------|--------------------------|
| Softening Point: | No information available |
| Molecular Weight: | No information available |
| VOC Content (%): | No information available |
| particle size | |
| Particle Size Distribution | |

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**

| | |
|---------------------|---|
| Inhalation | May cause irritation of respiratory tract. |
| Eye contact | May cause irritation. |
| Skin Contact | Causes mild skin irritation. |
| Ingestion | 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:

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

| | | | | |
|------------------|---|--|---|---|
| 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

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet