

MATERIAL SAFETY DATA SHEET

Rygel Tralkoxydim 400 WG Herbicide

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Supplier: Profeng Australia Pty
A.C.N.: 156 055 533
Street Address: 103 Ordish Road, Dandenong South, Vic 3175
Telephone: (03) 9768 2803
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Email: info@profeng.com.au

Emergency telephone number: National Poisons Information Centre:
Phone Australia 13 11 26.

Product name: Rygel Tralkoxydim 400 WG Herbicide
Product Use: Herbicide for pre-plant control of annual ryegrass, Paradoxa grass and certain broadleaf weeds in wheat; and for post-emergent control of Wild Radish in wheat, oats and barley as specified in the Directions for Use table on the container label.

2. HAZARDS IDENTIFICATION

Statement of Hazardous Nature

This product is classified as: Xn, Harmful. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: R22, R51. Harmful if swallowed. Toxic to aquatic organisms.

Safety Phrases: S20, S22, S36, S24/25. When using, do not eat or drink. Do not breathe dust. Wear suitable protective clothing. Avoid contact with skin and eyes.

SUSMP Classification: S5

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated

Pictogram:





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Signal word Warning

Hazard statement(s)

H302 Harmful if swallowed

H401 Toxic to aquatic life

Precautionary statement(s)

P264 Wash contacted areas thoroughly after handling

P370+P378 Not combustible. Use extinguishing media suited to burning materials

P501 Dispose of contents and containers to landfill

3. COMPOSITION / INFORMATION ON INGREDIENTS

Recommended use: Herbicide

Appearance: Pale granules

Chemical Entity	CAS No	Proportion
tralkoxydim	87820-88-0	400g/kg
Talc	14807-96-6	10-29%
Other Non-hazardous ingredients	secret	to balance

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS) or are Australian Pesticides & Veterinary Medicines Authority (APVMA) approved active constituents.

4. FIRST AID MEASURES

Inhalation Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.

Ingestion Rinse mouth and then drink plenty of water. Obtain medical advice. If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).

Skin Remove contaminated clothing and launder before re-use. Wash affected areas thoroughly with soap and water.

Eye If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.

Seek medical advice.

Advice to Doctor Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Water fog, foam, carbon dioxide or dry chemical.



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Hazardous Combustion Products: Combustible solid.

If involved in a fire, it will emit oxides of carbon, oxides of nitrogen and possibly oxides of sulfur.

Protective Equipment

Breathable air apparatus should be worn when fighting a fire in which this product is involved.

Other Information Prevent fire water from entering drains or water bodies.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal: Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal.

On-site disposal of concentrate is not acceptable.

Personal Protection: For appropriate personal protective equipment (PPE), refer Section 8.

Environmental Precautions:

This product is a herbicide and spills can damage crops, pastures and desirable vegetation.

7. HANDLING AND STORAGE

Handling Avoid generating dusts while handling the product and mixing. If dusts are generated, it is advisable to wear a dust mask, refer Section 8.

Storage Store in the closed, original container in a cool, well ventilated area.

Do not store for prolonged periods in direct sunlight.

Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

Other Information Always read the label and any attached leaflet before use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure standard for this product has been set; however, an exposure standard has been set for talc at 2.5 mg/m³.

The manufacturer has recommended the following exposure standard for tralkoxydim: TLV (TWA) 3 mg/m³, STEL - mg/m³.

Respiratory Protection

If dusts are present, wear a class P1 dust mask.

Personal Protective Equipment

When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles.

Eng. Controls

Handle in well ventilated areas, generally natural ventilation is adequate.



Avoid generating and inhaling dusts.

Hygiene Measures

After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash contaminated clothing and safety equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale granules
Melting Point:	99 - 104°C for tralkoxydim
Solubility in Water:	Disperses in water
Specific Gravity (H2O=1)	1.16
Vapour Pressure:	3.7 x 10 ⁻⁴ mPa (tralkoxydim)
Partition co-efficient, n-octanol/water	Kow Log P is 2.1 (tralkoxydim)
Flammability:	Combustible
Ignition Temperature:	550 - 600°C
Other Information:	pKa is 4.3 (tralkoxydim)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Hazardous Polymerization

Hazardous polymerisation is not possible.

Conditions to Avoid

Tralkoxydim (before formulation) has exhibited exothermic decomposition at around 100°C. Avoid heating the product to high temperatures.

11. TOXICOLOGICAL INFORMATION

Inhalation May cause irritation to the respiratory tract.

Ingestion Possible symptoms of exposure include: nausea, vomiting and central nervous system depression.

Skin Prolonged contact with the concentrate may cause irritation.

Eye May irritate the eyes.

Chronic Effects Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

Reproductive Toxicity

No such effects have been observed in the absence of maternal toxicity.

Mutagenicity Data indicates no mutagenic effects.

Carcinogenicity Data indicates no carcinogenic effects.



Acute Toxicity - Oral The following data is for the active ingredient, tralkoxydim.

LD50 (rat, male) 1258 mg/kg

LD50 (rat, female) 934 mg/kg

Acute Toxicity - Dermal

LD50 (rat) >2000 mg/kg for tralkoxydim

Acute Toxicity - Inhalation

LC50 (rat) (4hr) >3.5 mg/L

Eye Irritation Mild eye irritant.

Skin Irritation Mild skin irritant.

Skin Sensitisation Product is not a skin sensitiser.

Other Information The Australian Acceptable Daily Intake (ADI) for tralkoxydim for a human is 0.005 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 0.5 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species. (Ref: Comm. Dept. of Health and Ageing, 'ADI List', TGA, December 2004).

12. ECOLOGICAL INFORMATION

Environmental Protection

Spray drift should be avoided, read the label for more information.

Persistence / Degradability

Average field half life of tralkoxydim under aerobic conditions is 2 - 5 days.

Acute Toxicity - Fish The following is data for the active ingredient, tralkoxydim.

LC50 (96 hr) for rainbow trout is >7.2 mg/L

LC50 (96 hr) for bluegill sunfish is >6.1 mg/L

Acute Toxicity - Daphnia

EC50 (48 hr) for daphnia is >175 mg/L for tralkoxydim

Acute Toxicity - Algae

EC50 (120hr) for green algae 7.6 mg/L

Acute Toxicity - Other Organisms

Birds: Not toxic to birds. LD50 for mallard ducks is >3020 mg/kg

Bees: Not toxic to bees. LD50 54 µg/bee.

13. DISPOSAL CONSIDERATIONS

Product Disposal

On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemCollect).

Container Disposal

Thoroughly wash out the inner and add washings to the spray tank. Dispose of washed inner and cardboard box in landfill.



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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

U.N. Number 3077

Subsidiary Risk (ADG) 9

Hazchem Code 2X

Packing Group III

Storage and Transport

Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The ingredient: Tralkoxydim, is mentioned in the SUSMP.

16. OTHER INFORMATION

All information contained in this document is as accurate as possible based on information submitted by raw material suppliers. **Profeng Australia Pty Ltd** will not be responsible for any damages that may result from reliance on the information contained herein.