

## Rygel Tralkoxydim 400 WG Herbicide

Classified as hazardous according to the criteria of NOHSC

### 1. IDENTIFICATION OF THE CHEMICAL PRODUCT AND COMPANY

**Supplier:** Rygel Australia Pty Ltd  
**ACN:** 106 839 007  
**Street Address:** 103 Ordish Road, Dandenong South Vic 3175  
**Telephone:** (03) 9768 2803  
**Facsimile:** (03) 9768 2804  
**Emergency telephone number:** National Poisons Information Centre: Dial 13 11 26.

**Product name:** Rygel Tralkoxydim 400 WG Herbicide  
**Product Type:** Group A Herbicide  
**Formulation type:** water dispersible granule  
**Chemical type:** cyclohexanedione  
**Hazchem Code:** 2X  
**Dangerous Goods Class:** None allocated  
**Sub Risk Class:** 9  
**Packaging Group:** III  
**Poison Schedule:** exempt  
**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. 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.

### 3. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Worksafe Australia.

**Hazard Category** Xn Harmful

**R-phrases(s)**

R22 Harmful if swallowed.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.

**Poisons Schedule (Aust)/Toxic Substance (NZ):** S5

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

# MATERIAL SAFETY DATA SHEET

## 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.

**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/m<sup>3</sup>.

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

### 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

# MATERIAL SAFETY DATA SHEET

<b>Melting Point:</b>	99 - 104°C for tralkoxydim
<b>Solubility in Water:</b>	Disperses in water
<b>Specific Gravity (H<sub>2</sub>O=1)</b>	1.16
<b>Vapour Pressure:</b>	3.7 x 10 <sup>-4</sup> mPa (tralkoxydim)
<b>Partition co-efficient, n-octanol/water</b>	Kow Log P is 2.1 (tralkoxydim)
<b>Flammability:</b>	Combustible
<b>Ignition Temperature:</b>	550 - 600°C
<b>Other Information:</b>	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

# MATERIAL SAFETY DATA SHEET

## 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.

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

### Risk Phrase

### Safety Phrase

### Poisons Schedule

### Packaging & Labelling

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

### Hazard Category:

**AICS (Australia):** All of the components in this product are listed on the Australian Inventory of Chemical Substances.

## 16. OTHER INFORMATION

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

<b>Contact:</b>	Peter Howat	Mobile	0417 921 501
	103 Ordish Road	Phone	61 3 9768 2803
	Dandenong South, Vic 3175	Fax	61 3 9768 2804

National Poisons Information Centre: Dial 13 11 26 (from anywhere in Australia).