



MATERIAL SAFETY DATA SHEET

Rygel Tebuconazole 430 Fungicide

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Supplier: Profeng Australia Pty Ltd
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Emergency telephone number: National Poisons Information Centre:
Phone Australia 13 11 26.

Product name: Rygel Tebuconazole 430 Fungicide
Recommended Use: For the control of various diseases of bananas, peanuts, grapes, cereal crops, vegetables and other crops as specified in the Directions for Use table on the 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 Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.

Risk Phrases: R22, R63, R51/53. Harmful if swallowed. Possible risk of harm to the unborn child. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

Safety Phrases: S2, S20, S61, S24/25, S36/37. Keep out of reach of children. When using, do not eat or drink. Avoid release to the environment. Refer to special instructions/Safety Data Sheets. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

SUSMP Classification: S5
ADG Classification: None all
UN Number: None allocated

Pictogram:**Signal word**

Warning

Hazard statement(s)

H302

Harmful if swallowed.

H361

Suspected of damaging fertility or the unborn child.

P410

Protect from sunlight.

Precautionary statement(s)

P264

Wash contacted areas thoroughly after handling.

P403+P235

Store in a well-ventilated place. Keep cool.

P501

Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Entity	CAS No	Conc. %
Tebuconazole	107534-96-3	430 g/L
Other ingredients (considered non-hazardous)		Balance

This is a commercial product whose exact ratio of components may vary. Trace quantities of impurities are also likely.

4. FIRST AID MEASURES

Inhalation Over-exposure by inhalation is improbable. Check for other causes of observed symptoms and seek medical advice.

Ingestion Rinse mouth and then drink plenty of water. If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.

Do not give anything by mouth to a semi-conscious or unconscious person.

Skin Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.

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

First Aid Facilities If poisoning occurs, contact a doctor or Poisons Information Centre on 13 11 26 (Australia).

Advice to Doctor Treat symptomatically.



5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

If involved in a fire, the product will not burn. Choose extinguishing media to suit the burning material.

Hazards from Combustion Products

May emit hazardous smoke and fumes if involved in fires or exposed to extreme heat.

Special Protective

Equipment for fire fighters

Breathable air apparatus may have to be worn if material is involved in fires especially in confined spaces.

Specific Hazards

Considered low risk due to water content, however upon evaporation of water the product is combustible.

Hazchem Code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.

Personal Protection For appropriate personal protective equipment (PPE), refer Section 8. If product has dried out and the possibility of dust generation exists, wear a suitable respirator.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Do NOT contaminate dams, rivers or streams, or any other water bodies with pesticide or used containers.

Conditions for Safe Storage

Do not store for prolonged periods in direct sunlight.

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure standards have been set for this product or the active ingredients.

Engineering Controls

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

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. Re-entry period: Do not enter treated area until spray has dried.

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

Form	Liquid
Appearance	Off-white liquid suspension
Odour	Slight odour
Solubility in Water	Disperses in water
Vapour Pressure	1.7 x 10 ⁻³ mPa (20°C for tebuconazole)
Octanol/Water	
Partition Coefficient	Kow Log P is 3.7 for tebuconazole
Flammability	Non combustible material.

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Excessive heat and fire.

11. TOXICOLOGICAL INFORMATION

Inhalation Not a likely route of exposure when handling the concentrate. When applying the product as a spray avoid breathing in spray mist.

Ingestion Low toxicity. However, swallowing large amounts of concentrate may cause nausea and vomiting.

Skin May irritate the skin.

Eye The concentrate may cause irritation of the eyes.

Reproductive Toxicity Evidence from animal studies suggests the potential for developmental toxicity on repeated or prolonged exposure.

Acute Toxicity – Oral

LD50 (male rat) 4000 mg/kg for tebuconazole

LD50 (female rat) 1700 mg/kg

Acute Toxicity - Dermal

LD50 (rat) >5000 mg/kg for tebuconazole

Acute Toxicity - Inhalation

LC50 (rat) (4hr) (no deaths) >2.5 mg/l for a similar formulation

LC50 (rat) (4hr) >5.1 mg/l for tebuconazole dust

Eye Irritation Not an eye irritant.



Skin Irritation Not a skin irritant.

Other Information The Australian Acceptable Daily Intake (ADI) for tebuconazole for a human is 0.01 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 1.5 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, September 2005).

12. ECOLOGICAL INFORMATION

Other Precautions Do not contaminate dams, waterways or sewers with this product or the containers, which have held this product.

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

Acute Toxicity – Fish

LC50 (96 hr) for rainbow trout is 4.4 mg/l for tebuconazole

Acute Toxicity - Daphnia

LC50 (48 hr) for daphnia is 4.2 mg/l for tebuconazole.

Acute Toxicity – Algae

EC50 (72hr) for *Selenastrum capricornutum* is 3.80 mg/L

Acute Toxicity – Other Organisms

Birds: Not toxic to birds. LD50 for bobwhite quail is 1988 mg/kg

Bees: Not toxic to bees. LD50 83 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 Do not use this container for any other purpose. Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations.

drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMuster symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program.

If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in 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.



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14. TRANSPORT INFORMATION

UN Number: This product is not classified as a Dangerous Good by ADG, IATA or IMDG/IMSBC criteria. No special transport conditions are necessary unless required by other regulations.

15. REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Tebuconazole, 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.