



AGRO-ALLIANCE (AUSTRALIA) PTY LTD

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(AUSTRALIA) PTY LTD
A.B.N.11 130 864 603

2, Mavron Street, Ashwood, VIC 3147, Australia
Tel: +61 3 86442677 / 86442679 Fax: +61 3 98073883 Email: info@agroalliance.com.au

Section 1 - Identification of Chemical Product and Company

Tebuconazole. Group 3 Fungicide

Trade Name: Agro-Essence Tebuconazole 430SC Fungicide

Product Use: Agricultural fungicide for control of certain fungal diseases in a variety of crops.

Company: Agro-Alliance (Australia) Pty Ltd.

Address: 2, Mavron Street, Ashwood VIC 3147, Australia

Telephone Number: +61 03 86442677 / 86442679

Fax Number: +61 03 98073883

Website: www.agroalliance.com.au

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Section 2 - Hazards Identification

Classified as hazardous according to criteria of Safe Work Australia.

Not classified as a Dangerous Good according to the ADG Code

Risk Phrases: R22 Harmful if swallowed.

R63 Possible risk of harm to the unborn child.

Safety Phrases: S2 Keep out of reach of children.

S13 Keep away from food, drink and other animal foodstuffs.

S20/21 When using do not eat or drink/smoke.

S24/25 Avoid contact with skin/eyes.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

Section 3 - Composition/Information on Ingredients

Ingredients:

CHEMICAL	CAS NUMBER	PROPORTION
Tebuconazole	107534-96-3	430 g/L
Other ingredients (including water)		
determined not to be hazardous		Balance



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Section 4 - First Aid Measures

FIRST AID

Ingestion: Rinse any residual product from mouth and lips. Give water to drink and seek medical help. Contact a doctor or Poisons Information Centre Phone Australia 13 11 26.

Eye contact: Flush with running water until product is removed. Seek medical advice if irritation persists.

Skin contact: Remove contaminated clothing. Wash thoroughly under running water using a mild soap. Seek medical advice if irritation, reddening and/or other damage occurs.

Inhalation: Remove victim from exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

Advice to Doctor: Treat symptomatically. For large ingestions, gastric lavage and administration of activated charcoal and sodium sulphate should be considered. Monitor kidney and respiratory functions.

Section 5 - Fire Fighting Measures

Extinguishing media: Product is non-combustible. Extinguish fire using carbon dioxide, foam (alcoholresistant) or dry agent. If waterspray is used, contain all runoff. Contain all runoff.

Hazards from combustion products: Non-combustible. In a fire the formation of toxic fumes including hydrogen chloride, hydrogen cyanide and oxides of carbon and nitrogen can be expected. Will not polymerise.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated.

Section 6 - Accidental Release Measures

Emergency procedures / Material and methods for containment and cleanup procedures:

Accidental release: Wear protective equipment to prevent skin and eyes being affected. Evacuate unprotected and unnecessary personnel from area of spill. If



material is leaking from a container, stop the leak only if this can be done safely.

Prevent spillage entering drains or watercourse.

In the case of spillage, stop leak if safe to do so, and contain spill and absorb spilled material with absorbent material such as sand, clay or cat litter and dispose of waste as indicated in section 13 or according to the Australian Standard 2507 - Storage and Handling of Pesticides. Soil is a suitable absorbent, especially soils high in clay. Soil can be used to form bunds to contain spillage. Contaminated soil should be collected for disposal at a suitable landfill. Personal protective equipment and clothing should be washed with soapy water. Keep out animals and unprotected persons.

Section 7 - Handling and Storage

Precautions for Safe Handling: Harmful if swallowed. Will irritate the eyes and skin. Avoid contact with eyes and skin. When opening the container, preparing the spray and using prepared spray wear cotton overalls buttoned to the neck and wrist, washable hat, elbow-length PVC gloves. After use, and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Conditions for Safe Storage: Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. This product is a Schedule 5 Poison (S5) and must be stored and sold in accordance with the relevant Health Department regulations.

Section 8 - Exposure Controls and Personal Protection

Exposure Guidelines:

No exposure limits have been assigned by Safe Work Australia to the ingredients in this product.

Biological Limit Values: No biological limit allocated.

Engineering controls: Use in ventilated areas. Supplement natural ventilation if necessary.

Keep containers closed when not in use. No special engineering controls are required.

Personal Protective equipment (PPE):

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



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Respiratory Protection: Generally not required. Use of a particulate respirator may be required in certain circumstances to protect from inhalation of spray mist. After each day's use, wash gloves, goggles and contaminated clothing.

Section 9 - Physical and Chemical Properties:

Appearance: Off white liquid suspension.

Odour: Faint/slight odour.

Boiling point: No data available.

Freezing point: Just below 0°C.

Solubility in Water: Fully miscible. Tebuconazole will be suspended, not dissolved.

pH: Not available.

Specific Gravity: Approximately 1.1

Flammability: Non-Combustible liquid.

Poisons Schedule: S5.

Section 10 - Stability and Reactivity

Chemical Stability: Product should be stable in storage for at least 2 years after manufacture. Some settling might occur, and containers should be agitated at least once every 12 months to resuspend any sediment.

Conditions to avoid: Do not store in excessive heat conditions.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: In a fire, the formation of toxic fumes including hydrogen chloride, hydrogen cyanide and oxides of carbon and nitrogen can be expected.

Hazardous reactions: Not likely to polymerise.

Section 11 - Toxicological Information

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of



protective equipment and handling procedures to minimise exposure.

Potential Health Effects:

ACUTE EFFECTS

Swallowed: Acute Oral LD50 (rat) > 3000 mg/kg (similar formulation). Accidental swallowing of small amounts of this product is not expected to cause injury – low acute oral toxicity.

Eye: Mild irritant. May cause discomfort if contact is prolonged.

Skin: Acute dermal LD50 (rat) > 2,000 mg/kg (similar formulation). Slightly irritating, but not a skin sensitiser.

Inhaled: Should not cause severe effects if treated promptly. May cause irritation to the respiratory tract. Acute inhalation LC50 > 5.1 mg/L/4 hrs (similar formulation).

Chronic toxicity: Evidence from animal studies indicates that repeated or prolonged exposure to Tebuconazole can result in developmental effects and is classified as 'having possible risk of harm to the unborn child'. There is no evidence of mutagenic or genotoxic effects in a series of in vitro and in vivo mutagenicity studies.

Section 12 - Ecological Information

Environmental Toxicology: Low hazard to birds, earthworms and bees. Moderate toxicity to fish and aquatic organisms. Fish: Rainbow trout 96 hr LC50 = 19.9 mg/L; Invertebrates Daphnia magna 48 hr EC50 = 31.0 mg/L; fresh water algae 48 hr EC50 = 3.8 mg/L (Selenastrum capricornutum) and 15.2 mg/L (Desmodesmus subspicatus). Birds LD50 Japanese quail: > 2000 mg/kg, Bobwhite quail LC50 = 1988 mg/kg; Bees: LD50 = 83 µg/bee.

Environmental Fate: Tebuconazole has low mobility in soil. Tebuconazole is not readily degradable in laboratory soil studies, but under field conditions it degrades much more rapidly and does not accumulate.

Section 13 - Disposal Considerations

Spills and Disposal: Persons involved in cleanup require adequate skin protection - see section 8. In case of spillage, contain and absorb spilled material with absorbent material such as clay, sand or cat litter and dispose of waste as indicated below or in accordance to the Australian Standard 2507-Storage and Handling of Pesticides. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. Dispose of drummed wastes, including decontamination



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solution in accordance with the requirements of Local or State Waste Management Authorities.

Disposal of empty containers: Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers and product..

For refillable containers: Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

Section 14 - Transport Information

Road & Rail Transport: This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

For bulk shipments this product is a class 9, UN 3082.

Marine and Air Transport: Tebuconazole 430 Fungicide is classified as a Marine Pollutant according to International Maritime Dangerous Goods (IMDG) Code and the International Air transport Association (IATA). If transporting by sea or air the following Dangerous Goods Classification applies:-UN 3082, Class 9 (Miscellaneous Dangerous Goods), Packing Group III, Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Tebuconazole). Hazchem code ●3Z. Hazard Identification Number (HIN) 90. Emergency Guide 47 (Australian Standards).

This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations.

Section 15 - Regulatory Information

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a schedule 5 poison. This product is registered under the Agricultural



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and Veterinary Chemicals Code Act 1994. Product Registration No. 66903.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xn: Harmful. This product is exempt from classification as a Dangerous Good in packs less than 3,000 kg or litres under the Australian Code for the Transport of Dangerous Goods by Road and Rail (7thEd).

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the ASCC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2001(2003)]