

4Farmers Tebuconazole 430 Fungicide

Hazard Alert Code: MODERATE

Chemwatch Material Safety Data Sheet
Issue Date: 15-Apr-2011
XC9317SC

CHEMWATCH 4649-13
Version No:3
CD 2011/1 Page 1 of 6

Section 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME

4Farmers Tebuconazole 430 Fungicide

SYNONYMS

tebuconazole

PRODUCT USE

- Operators should be trained in procedures for safe use of this material.
 - Material is mixed and used in accordance with manufacturers directions. Application is by agricultural spray.
- Agricultural fungicide for the control of diseases.

SUPPLIER

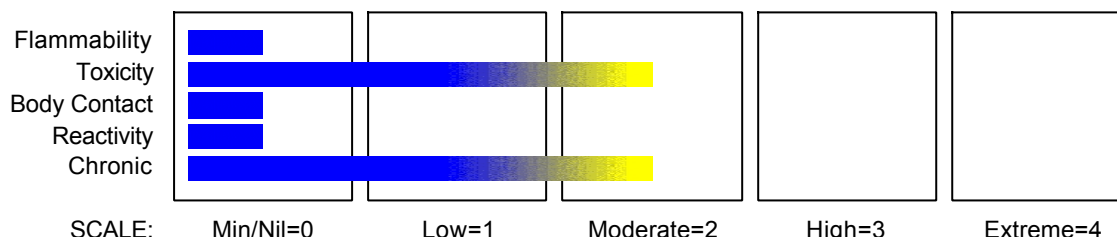
Company: 4Farmers Pty Ltd
Address:
70 MCDOWELL ST. A
WELSHPOOL, 6106
Australia
Telephone: 08- 9356 3445
Fax: 08- 9356- 3447
Website: cdrom://infopest2006- March/

Section 2 - HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS. According to NOHSC Criteria, and ADG Code.

CHEMWATCH HAZARD RATINGS



SCALE:

Min/Nil=0

Low=1

Moderate=2

High=3

Extreme=4

RISK

- Harmful if swallowed.
- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Possible risk of harm to the unborn child.
- Cumulative effects may result following exposure*.
- Limited evidence of a carcinogenic effect*.

SAFETY

- Do not breathe gas/fumes/vapour/spray.
- Avoid exposure - obtain special instructions before use.
- To clean the floor and all objects contaminated by this material, use water.
- This material and its container must be disposed of in a safe way.
- Keep away from food, drink and animal feeding stuffs.

continued...

Chemwatch Material Safety Data Sheet
Issue Date: 15-Apr-2011
XC9317SC

CHEMWATCH 4649-13
Version No:3
CD 2011/1 Page 2 of 6

Section 2 - HAZARDS IDENTIFICATION

- May possibly affect fertility*.
 - Possible risk of harm to breastfed babies*.
- * (limited evidence).
- If swallowed, IMMEDIATELY contact Doctor or Poisons Information Centre. (show this container or label).
 - Use appropriate container to avoid environmental contamination.
 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

NAME	CAS RN	%
tebuconazole (430 g/L)	107534-96-3	30-60
emulsifiers		10-29
water	7732-18-5	30-60

Section 4 - FIRST AID MEASURES

SWALLOWED

- For advice, contact a Poisons Information Centre or a doctor.
- If swallowed do NOT induce vomiting.
- If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.
- Observe the patient carefully.
- Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.

EYE

- If this product comes in contact with the eyes:
- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

SKIN

- If skin contact occurs:
- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

INHALED

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.

NOTES TO PHYSICIAN

- Treat symptomatically.
- After three days, elimination was almost complete in animal study.
Metabolites detected were mainly excreted in urine and faeces.

Section 5 - FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

- There is no restriction on the type of extinguisher which may be used.

Chemwatch Material Safety Data Sheet
Issue Date: 15-Apr-2011
XC9317SC

CHEMWATCH 4649-13
Version No:3
CD 2011/1 Page 3 of 6

Section 5 - FIRE FIGHTING MEASURES

FIRE FIGHTING

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves for fire only.
- Prevent, by any means available, spillage from entering drains or water courses.
- Use fire fighting procedures suitable for surrounding area.

FIRE/EXPLOSION HAZARD

- Non combustible.
 - Not considered to be a significant fire risk.
 - Expansion or decomposition on heating may lead to violent rupture of containers.
 - Decomposes on heating and may produce toxic fumes of carbon monoxide (CO).
- Combustion products include: carbon dioxide (CO₂), nitrogen oxides (NO_x) and chlorides.

FIRE INCOMPATIBILITY

- Avoid contamination with strong oxidising agents as ignition may result.

HAZCHEM

None

PERSONAL PROTECTION

Glasses:
Safety Glasses.

Gloves:
1.BUTYL 2.NEOPRENE 3.VITON

Section 6 - ACCIDENTAL RELEASE MEASURES

MINOR SPILLS

- Clean up all spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Control personal contact by using protective equipment.
- Contain and absorb spill with sand, earth, inert material or vermiculite.

MAJOR SPILLS

- Minor hazard.
- Clear area of personnel.
- Alert Fire Brigade and tell them location and nature of hazard.
- Control personal contact by using protective equipment as required.
- Prevent spillage from entering drains or water ways.

Personal Protective Equipment advice is contained in Section 8 of the MSDS.

Section 7 - HANDLING AND STORAGE

PROCEDURE FOR HANDLING

- Limit all unnecessary personal contact.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area.
- When handling DO NOT eat, drink or smoke.

SUITABLE CONTAINER

- Polyethylene or polypropylene container.
- Packing as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

STORAGE INCOMPATIBILITY

- Avoid storage with oxidisers.

STORAGE REQUIREMENTS

- Store in original containers.
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.

continued...

Chemwatch Material Safety Data Sheet
Issue Date: 15-Apr-2011
XC9317SC

CHEMWATCH 4649-13
Version No:3
CD 2011/1 Page 4 of 6

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS

The following materials had no OELs on our records

- tebuconazole: CAS:107534- 96- 3
- water: CAS:7732- 18- 5

PERSONAL PROTECTION



EYE

- Safety glasses.
- Safety glasses with side shields.
- Chemical goggles.
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lens or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

HANDS/FEET

- Elbow length PVC gloves.
- Wear general protective gloves, eg. light weight rubber gloves.

OTHER

- Overalls.
- Eyewash unit.
- Impervious protective clothing.

ENGINEERING CONTROLS

- General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Off white liquid suspension; mixes with water.

PHYSICAL PROPERTIES

Liquid.
Mixes with water.

State	Liquid	Molecular Weight	Not available
Melting Range (°C)	Not available	Viscosity	Not Available
Boiling Range (°C)	>100	Solubility in water (g/L)	Miscible
Flash Point (°C)	Not applicable	pH (1% solution)	Not available
Decomposition Temp (°C)	Not available	pH (as supplied)	4.0- 7.0
Autoignition Temp (°C)	Not available	Vapour Pressure (kPa)	Not available
Upper Explosive Limit (%)	Not available	Specific Gravity (water=1)	1.12
Lower Explosive Limit (%)	Not available	Relative Vapour Density (air=1)	Not available
Volatile Component (%vol)	Not available	Evaporation Rate	Not available

continued...

Section 10 - STABILITY AND REACTIVITY

CONDITIONS CONTRIBUTING TO INSTABILITY

- Presence of incompatible materials.
 - Product is considered stable.
 - Hazardous polymerisation will not occur.
- For incompatible materials - refer to Section 7 - Handling and Storage.*

Section 11 - TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS

ACUTE HEALTH EFFECTS

- Harmful if swallowed.

CHRONIC HEALTH EFFECTS

- Possible risk of harm to the unborn child.
- Limited evidence of a carcinogenic effect*.
- May possibly affect fertility*.
- Cumulative effects may result following exposure*.
- Possible risk of harm to breastfed babies*.
- * (limited evidence).

TOXICITY AND IRRITATION

- Not available. Refer to individual constituents.

Section 12 - ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 Avoid release to the environment.
 Refer to special instructions/ safety data sheets.

Ecotoxicity

Ingredient	Persistence: Water/Soil	Persistence: Air	Bioaccumulation	Mobility
4Farmers Tebuconazole 430 Fungicide	No Data	No Data		
tebuconazole	Available HIGH	Available No Data Available	LOW	LOW

Section 13 - DISPOSAL CONSIDERATIONS

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.
- Bury residue in an authorised landfill.
- Recycle containers if possible, or dispose of in an authorised landfill.

Section 14 - TRANSPORTATION INFORMATION



4Farmers Tebuconazole 430 Fungicide

Chemwatch Material Safety Data Sheet
Issue Date: 15-Apr-2011
XC9317SC

Hazard Alert Code: MODERATE

CHEMWATCH 4649-13
Version No:3

CD 2011/1 Page 6 of 6

Section 14 - TRANSPORTATION INFORMATION

HAZCHEM:

None (ADG7)

NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS: UN, IATA, IMDG

Section 15 - REGULATORY INFORMATION

POISONS SCHEDULE S5

REGULATIONS

Regulations for ingredients

tebuconazole (CAS: 107534-96-3) is found on the following regulatory lists;

"Australia ADI list - Acceptable daily intakes for agricultural and veterinary chemicals", "Australia Hazardous Substances",
"Australia New Zealand Food Standards Code - Maximum Residue Limits (Australia only) - Schedule 1"

water (CAS: 7732-18-5) is found on the following regulatory lists;

"Australia Inventory of Chemical Substances (AICS)", "IMO IBC Code Chapter 18: List of products to which the Code does not apply",
"International Fragrance Association (IFRA) Survey: Transparency List", "OECD Representative List of High Production Volume (HPV) Chemicals"

No data for 4Farmers Tebuconazole 430 Fungicide (CW: 4649-13)

Section 16 - OTHER INFORMATION

■ Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

A list of reference resources used to assist the committee may be found at:

www.chemwatch.net/references.

■ The (M)SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

This document is copyright. Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.

Issue Date: 15-Apr-2011

Print Date: 31-May-2011

This is the end of the MSDS.