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Printing date 27.01.2015

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# SAFETY DATA SHEET

According to Safe Work Australia

Revision: 27.01.2015

## 1 . IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

**Product Name:** 4FARMERS TEBUCONAZOLE 430 FUNGICIDE

**Recommended Use of the Chemical and Restriction on Use:** Agricultural fungicide

**Details of Manufacturer or Importer:**

4Farmers Pty Ltd  
70 McDowell Street  
Welshpool WA 6106

**Phone Number:** +61 8 9356 3446

**Emergency telephone number:** National Poison Information Centre: 13 11 26

## 2 . HAZARDS IDENTIFICATION

**Hazardous Nature:**

Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



health hazard

Repr. 2                      H361 Suspected of damaging fertility or the unborn child.



environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



Acute Tox. 4                H302 Harmful if swallowed.

H401 Toxic to aquatic life.

**Signal Word** Warning

**Hazard Statements**

H302 Harmful if swallowed.

H361 Suspected of damaging fertility or the unborn child.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P280                Wear protective gloves/protective clothing/eye protection/face protection.

P273                Avoid release to the environment.

P264                Wash hands thoroughly after handling.

P270                Do not eat, drink or smoke when using this product.

P201                Obtain special instructions before use.

P202                Do not handle until all safety precautions have been read and understood.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P330                Rinse mouth.

P391                Collect spillage.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P405                Store locked up.

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P501 Dispose of contents/container in accordance with local/regional/national regulations.

## 3 . COMPOSITION AND INFORMATION ON INGREDIENTS

### Chemical Characterization: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

### Hazardous Components:

107534-96-3	Tebuconazole	43%
⚠ Repr. 2, H361; ⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302		

## 4 . FIRST AID MEASURES

**Inhalation:** If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

### Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

### Eye Contact:

In case of eye contact, hold eyelids open and rinse cautiously with water for at least 15 minutes. Seek medical attention if symptoms persist.

### Ingestion:

If swallowed, do not induce vomiting. Rinse mouth and give plenty of water to drink. Do not give anything by mouth to an unconscious person. Seek immediate medical attention.

### Information for Doctor:

Treat symptomatically.

After three days, elimination was almost complete in animal study.

Metabolites detected were mainly excreted in urine and faeces.

### Symptoms Caused by Exposure:

Ingestion: Harmful if swallowed. Ingesting large amounts of concentrate may cause nausea and vomiting.

## 5 . FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Use fire extinguishing methods suitable to surrounding conditions.

### Specific Hazards Arising from the Chemical:

Non combustible. Hazardous combustion products include oxides of carbon and nitrogen, hydrogen chloride and hydrogen cyanide.

### Special Protective Equipment and Precautions for Fire Fighters:

Wear Safe Work Australia approved self-contained breathing apparatus and full protective clothing.

## 6 . ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures:

Wear Safe Work Australia approved respiratory protection and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

### Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

### Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and absorb spill with sand, earth, vermiculite or some other absorbent material. Collect the spilled material and place into a suitable container for disposal.

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## 7 . HANDLING AND STORAGE

### Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

### Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Do not store for prolonged periods in direct sunlight. Keep away from strong oxidising agents.

## 8 . EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Exposure Standards:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Engineering Controls:** Ensure adequate ventilation of the working area.

### Respiratory Protection:

Use a Safe Work Australia approved vapour respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

### Skin Protection:

Elbow-length PVC gloves, cotton overall buttoned to the neck and wrist, safety boots and a washable hat. See Australian Standards AS/NZS 2161, 2210.1 and 2210.2 for more information.

### Eye and Face Protection:

Eye and face protectors for protection against splashing materials or liquids. See Australian/New Zealand Standard AS/NZS 1337 for more information.

## 9 . PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

<b>Form:</b>	Viscous suspension
<b>Colour:</b>	Off white
<b>Odour:</b>	No information available
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	9-10
<b>Melting point/Melting range:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	> 100 °C
<b>Flash Point:</b>	Not applicable
<b>Flammability:</b>	Non flammable
<b>Auto-ignition Temperature:</b>	No information available
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	Not applicable
<b>Upper:</b>	Not applicable
<b>Vapour Pressure:</b>	No information available
<b>Relative Density:</b>	1.12
<b>Vapour Density:</b>	No information available

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**Evaporation Rate:** No information available  
**Solubility in Water:** Miscible.

## 10 . STABILITY AND REACTIVITY

**Possibility of Hazardous Reactions:** Hazardous polymerisation will not occur.

**Chemical Stability:** Stable at ambient temperature and under normal conditions of use.

**Conditions to Avoid:** No information available

**Incompatible Materials:** Oxidising agents.

**Hazardous Decomposition Products:**  
Oxides of carbon and nitrogen, hydrogen chloride and hydrogen cyanide.

## 11 . TOXICOLOGICAL INFORMATION

**Toxicity:**

**LD<sub>50</sub>/LC<sub>50</sub> Values Relevant for Classification:**

**107534-96-3 Tebuconazole**

Oral	LD <sub>50</sub>	1700 mg/kg (rat) (female) 4000 mg/kg (rat) (male) >5000 mg/kg (rat)
Inhalation	LC <sub>50</sub> /4 h	>5.1 mg/l (rat)

**Acute Health Effects**

**Inhalation:** May cause respiratory irritation.

**Skin:** May irritate the skin.

**Eye:** Eye contact with the concentrate may irritate the eyes.

**Ingestion:** Harmful if swallowed. Ingesting large amounts of concentrate may cause nausea and vomiting.

**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.

**Serious Eye Damage / Irritation:** Based on classification principles, the classification criteria are not met.

**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.

**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.

**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.

**Reproductive Toxicity:**

Suspected of damaging fertility or the unborn child.

Tebuconazole is classified by Safe Work Australia as Toxic to Reproduction Category 3.

**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT) - Repeated Exposure:**

Based on classification principles, the classification criteria are not met.

**Aspiration Hazard:** Based on classification principles, the classification criteria are not met.

**Chronic Health Effects:** No information available

**Existing Conditions Aggravated by Exposure:** No information available

**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for tebuconazole for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOEL of 2.96 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:

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Comm. Dept. of Health and Ageing Office of Chemical Safety, 'ADI List', June 2014).

## 12 . ECOLOGICAL INFORMATION

**Ecotoxicity:** Tebuconazole has a low hazard to birds, earthworms and bees.

**Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**107534-96-3 Tebuconazole**

LC<sub>50</sub>/48 h 4.2 mg/l (daphnia)

LC<sub>50</sub>/96 h 4.4 mg/l (rainbow trout)

**Persistence and Degradability:** Persistence in water/soil for tebuconazole is high.

**Bioaccumulative Potential:** Bioaccumulation for tebuconazole is low.

**Mobility in Soil:** Mobility of tebuconazole is low.

## 13 . DISPOSAL CONSIDERATIONS

**Disposal Methods and Containers:** Dispose according to applicable local and state government regulations.

**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

## 14 . TRANSPORT INFORMATION

**UN Number**

**ADG** Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail when being transported in IBCs or other receptacles < 500 L (kg), (Special Provision AU01).

**IMDG, IATA** UN3082

**Proper Shipping Name**

**IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., MARINE POLLUTANT

**IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Dangerous Goods Class**

**IMDG Class:** 9 Miscellaneous dangerous substances and articles.

**Packing Group:**

**IMDG, IATA** III

**Marine pollutant:** Yes

**EMS Number:** F-A,S-F

## 15 . REGULATORY INFORMATION

**Australian Inventory of Chemical Substances:**

7732-18-5 Water

107534-96-3 Tebuconazole

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:**

Poisons Schedule: 5

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### 16 . OTHER INFORMATION

**Creation Date:** 27.01.2015

**Abbreviations and acronyms:**

ADG: Australian Dangerous Goods

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC<sub>50</sub>: Lethal concentration, 50 percent

LD<sub>50</sub>: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

**Disclaimer**

This MSDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - December 2011"

The information contained in this material safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. 4Farmers Pty Ltd makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.