



# CHOICE CURE 430 FUNGICIDE

## Safety Data Sheet

### SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

<b>Product Identifier</b>	<b>Choice Cure 430 FUNGICIDE</b>
<b>Active Constituent</b>	<b>430 g/L Tebuconazole</b>
<b>Other means of Identification</b>	Agricultural fungicide Grow Choice product code number: 753 10 AVPMA registered number: 80627
<b>Recommended use of the chemical and restrictions on due</b>	For the control of leaf spot and leaf speckle on bananas; rust, leaf spot and net blotch of peanuts; foliar diseases on cereal crops; and other diseases on beans, peas, onions, pawpaw, pyrethrum and ryegrass and fescue seed crops as specified in the Directions for Use.
<b>Suppliers name, address and phone number:</b>	Grow Choice Pty Ltd 113 Fitzroy Street   TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922   Email: admin@growchoice.com.au
<b>Emergency phone number:</b>	In Case Of Emergency Dial 000
<b>Poisons Information Centre</b>	Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 <a href="http://www.chw.edu.au/poisons/contact.htm">http://www.chw.edu.au/poisons/contact.htm</a>

### SECTION 2: HAZARDS IDENTIFICATION

Classified as **HAZARDOUS** in accordance with the Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(2004) 3rd Edition and the Globally Harmonized System of Classification and Labelling of Chemicals (the GHS).  
 Considered **non-dangerous** for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)  
 Considered **DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14 (refer Section 14)

#### Classification of hazardous chemical

<b>Acute Toxicity Oral</b>	<b>Category 4</b>
<b>Reproductive Toxicity</b>	<b>Category 2</b>
<b>Hazardous to aquatic environment Short term/Chronic</b>	<b>Category 2</b>

#### 2.2 Label Elements

Signal Word **DANGER**

#### GHS Symbols



Health Hazard



Exclamation Mark



Environment

#### General Precautionary Statements.

**If medical advice is needed, have product container or label at hand.**  
**Keep out of reach of children.**  
**Read label before use**

#### Hazard Statements

- H361d Suspected of damaging the unborn child**
- H302 Harmful if swallowed**
- H411 Toxic to aquatic life with long lasting effects**

## Precautionary Statements

Prevention	<b>P201.</b>	<b>Obtain special instructions before use.</b>
	<b>P202</b>	<b>Do not handle until all safety precautions have been read and understood.</b>
	<b>P262</b>	<b>Do not get in eyes, on skin, or on clothing.</b>
	<b>P264</b>	<b>Wash contacted areas thoroughly after handling.</b>
	<b>P270</b>	<b>Do not eat, drink or smoke when using this product.</b>
Response	<b>P273.</b>	<b>Avoid release to the environment.</b>
	<b>P281</b>	<b>Use personal protective equipment as required.</b>
	<b>P201</b>	<b>Obtain special instructions before use.</b>
	<b>P202</b>	<b>Do not handle until all safety precautions have been read and understood.</b>
	<b>P262</b>	<b>Do not get in eyes, on skin, or on clothing.</b>
Storage	<b>P264</b>	<b>Wash contacted areas thoroughly after handling.</b>
	<b>P270</b>	<b>Do not eat, drink or smoke when using this product.</b>
	<b>P403+P235+P233</b>	<b>Store in a well-ventilated place. Keep cool. Keep container tightly closed.</b>
Disposal	<b>P405</b>	<b>Store locked up</b>
	<b>P501</b>	<b>Dispose of contents and container in accordance with local, regional and national regulations.</b>

## SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical ingredients:	Component	CAS No	Concentration %
CAS number and other unique identifiers:	Tebuconazole	107534-96-3	430 g/L
	Other ingredients, including water	(non-hazardous)	balance
Concentration of ingredients:			

## SECTION 4: FIRST AID MEASURES

**In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist. Take this SDS and or DFU/Label with you or when calling the Poisons Information Centre.**

### Description of first aid measures

**General advice:** Those who offer First Aid should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

<b>Swallow</b>	If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.
<b>Eye:</b>	Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.
<b>Skin:</b>	Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.
<b>Inhaled</b>	No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

### Symptoms caused by exposure

To date there are no symptoms are known.

### Indication of any immediate medical attention and special treatment needed

**Treatment** Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. There is no specific antidote. Treat symptomatically

## SECTION 5: FIRE FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Water, Foam, Carbon dioxide (CO <sub>2</sub> ), Dry chemical.
<b>Specific hazards arising from the chemical</b>	Hazardous combustion products include Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NO <sub>x</sub> )
<b>Special protective equipment and precautions for fire fighters</b>	Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.
<b>Hazchem Code</b>	<b>3Z</b>

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures</b>	In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material from entering drains or watercourses.
<b>Environmental precautions</b>	Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (eg sand or soil). Shovel the absorbed spill into drums
<b>Methods and materials for containment and cleaning up</b>	Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately. ). Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority.
<b>6.4 Reference to other sections</b>	Information regarding safe handling see section 7. Information regarding personal protective equipment see section 8. Information regarding waste disposal, see section 13.

## SECTION 7: HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions. Hygiene measures: When using products, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after use and before eating, drinking, smoking/using tobacco, chewing gum, using the toilet or applying cosmetics. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Avoid contact with eyes and skin. Avoid contact or contamination of product with incompatible materials listed in Section 10.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep out of reach of children, unauthorised persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food. This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Store out of direct sunlight and extreme temperature. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight. Always read the label and any attached leaflet before use.

## SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

### Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Tebuconazole	107534-96-3	0.2 mg/m <sup>3</sup> (SK-ABS)		OES BCS*

### Appropriate engineering controls

No special requirements. Product is used outdoors  
Control process conditions to avoid contact. Use only in well-ventilated areas. If necessary, use local exhaust ventilation to keep airborne concentration below the exposure limits.

### Personal protective equipment (PPE):

When opening the container, preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant and face shield or goggles.

Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.

When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and optional once chemical is prepared for use, elbow length PVC chemical resistant and face shield or goggles if protected from spray drift/contamination.

Face and Eye Protection: Face shield or goggles.

Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat.

Gloves: Elbow-length chemical resistant PVC gloves.

Respiratory: If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn.

Recommended to use Australian and New Zealand Standard PPE:

Overalls AS 3765, Clothing for protection against Hazardous chemicals

Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves)

Goggles and face shield As/NZS 1337, Eye protectors for industrial applications.

Footwear AS/NZS 2210, Occupational protective footwear

Respirators AS NZS 1715 Selection,

Use and Maintenance of Respiratory Protective Devices AS/NZS 1716, Respiratory Protective Devices

### Requirements Concerning Training

Check State and/or Territory regulations that require people who use pesticides in their job or business to have adequate training in the application of the materials.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Description &amp; colour:</b>	<i>Off-white liquid suspension</i>
<b>Odour:</b>	<i>Characteristic weak odour</i>
<b>Boiling Point:</b>	<i>Approximately 100°C at 100kPa.</i>
<b>Freezing/Melting Point:</b>	<i>Below 0°C.</i>
<b>Volatiles:</b>	<i>Water component.</i>
<b>Vapour Pressure:</b>	<i>2.37 kPa at 20°C (water vapour pressure).</i>
<b>Vapour Density:</b>	<i>As for water.</i>
<b>Specific Gravity:</b>	<i>1.12 at 20°C</i>
<b>Water Solubility:</b>	<i>Soluble.</i>
<b>pH:</b>	<i>No data.</i>
<b>Volatility:</b>	<i>No data.</i>
<b>Odour Threshold:</b>	<i>No data.</i>
<b>Evaporation Rate:</b>	<i>As for water.</i>
<b>Coeff Oil/water distribution:</b>	<i>No data</i>
<b>Auto ignition temp:</b>	<i>Does not burn.</i>

## SECTION 10: STABILITY AND REACTIVITY

<b>Reactivity:</b>	This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.
<b>Conditions to Avoid:</b>	Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.
<b>Incompatibilities:</b>	strong acids, strong bases, strong oxidising agents.
<b>Fire Decomposition:</b>	This product is likely to decompose only after heating to dryness, followed by further strong heating. Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.
<b>Polymerisation:</b>	Polymerisation reactions are unlikely; they are not expected to occur.

## SECTION 11: TOXICOLOGICAL INFORMATION (continued on page 6)

### Information on toxicological effects

<b>Acute oral toxicity</b>	LD50 (Rat) > 2,000 mg/kg
<b>Acute inhalation toxicity</b>	LC50 (Rat) > 2.18 mg/l Exposure time: 4 h Determined in the form of liquid aerosol. Highest attainable concentration. No deaths
<b>Acute dermal toxicity</b>	LD50 (Rat) > 5,050 mg/kg
<b>Skin irritation</b>	No skin irritation (Rabbit)
<b>Eye irritation</b>	Minimally irritating (Rabbit)
<b>Sensitisation</b>	Non-sensitizing (Guinea pig)

Tebuconazole is a SWA Class 3 Reproductive risk, possible risk of harm to the unborn child.

### Potential Health Effects

#### Inhalation:

**Short Term Exposure:** Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term inhalation.

#### Skin Contact:

**Short Term Exposure:** Available data indicates that this product is skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

**Long Term Exposure:** No data for health effects associated with long term skin exposure.

#### Eye Contact:

**Short Term Exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

#### Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Available data shows that this product is harmful, but symptoms are not available. However, this product is an oral irritant. Symptoms may include burning

sensation and reddening of skin in mouth and throat. Other symptoms may also become evident, but all should disappear once exposure has ceased.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

**Carcinogen Status:**

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

The ADI for Tebuconazole is set at 0.03mg/kg/day. The corresponding NOEL is set at 2.96mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014. No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

**Ventilation:** This product should only be used where there is ventilation that is adequate to keep exposure below the TWA levels. If necessary, use a fan.

**SECTION 12: ECOLOGICAL INFORMATION**

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

**Birds:** LD<sub>50</sub> Male Japanese quail: 4438mg/kg LD<sub>50</sub> LD<sub>50</sub> Female Japanese quail: 2912mg/kg

bobwhite quail: 1988mg/kg

**Fish:** LC<sub>50</sub> rainbow trout: 6.4mg/L

LC<sub>50</sub> golden orfe: 8.7mg/L

LC<sub>50</sub> rainbow trout (*Oncorhynchus mykiss*): 6.4mg/L

**Algae:** EC<sub>50</sub> 4.01mg/L

**Daphnia:** EC<sub>50</sub> 11.5mg/L

**Worms:** LD<sub>50</sub> (*Eisenia foetida*) 1.381mg/kg

**Environmental fate:**

**Animals:** After three days, elimination is almost complete. Tebuconazole is excreted in urine and faeces.

**Plants:** In plant tissues, a mean half-life of 12 days has been established.

**Soil/Environment:** Degrades slowly in soil studies conducted in the laboratory. Under field conditions, the compound degraded much more rapidly and did not accumulate in long term (3-5 year) studies. Since no residues could be detected in deeper soil layers of these and other studies, and adsorption/desorption studies indicate low mobility in soil, groundwater contamination through leaching can be excluded. In natural waters, hydrolysis and indirect photolysis occur; in a pond study, the compound dissipated from the water body with a DT<sub>50</sub> of 11-3 weeks. Low vapour pressure and strong adsorption result in low volatilisation into the air.

**SECTION 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 (ChemClear®).

**Container Disposal** Do not use this container for any other purpose. Triple or preferably pressure rinse inner bladder or containers before disposal. Add rinsate to the spray tank. 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 at an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm 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 or product. 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.

## SECTION 14: TRANSPORT INFORMATION

### General Transport Information

It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.

### Land

Considered **DANGEROUS** for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)

ADG

UN number 3082

Transport hazard class(es) 9

Subsidiary Risk None

Packaging group III

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE)

Hazchem Code •3Z

According to AU01, Environmentally Hazardous Substances in packagings, IBC or any other receptacle not exceeding 500 kg or 500 L are not subject to the ADG Code.

### Sea and Air

Considered **DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14

IMDG

UN number 3082

Transport hazard class(es) 9

Subsidiary Risk: None

Packaging group III

Marine pollutant: YES

Description of the goods: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE)

IATA

UN number 3082

Transport hazard class(es) 9

Subsidiary Risk: None

Packaging group III

Environment. Hazardous Mark YES

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE)

## SECTION 15: REGULATORY INFORMATION

### Regulatory Information

Registered according to the Agricultural and Veterinary Chemicals Code Act 1994 Australian Pesticides and Veterinary Medicines Authority approval number: 80627 SUSMP classification (Poison Schedule)

**Poisons Schedule** Schedule 5 (Standard for the Uniform Scheduling of Medicines and Poisons)

## SECTION 16: ANY OTHER RELEVANT INFORMATION

### Review

This Safety Data Sheet (SDS) was completed 4 February. First SDS.

### Acronyms:

AVPMA: Australian Pesticides and Veterinary Medicines Authority.

GHS: Globally Harmonised system of Classification and Labelling of chemicals

HSIS: Hazardous Substances Information System

NOHSC: National Occupational Health and Safety Commission

CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)

STEL Exposure standard - short term exposure limit.

AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment

ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals

ADG: Australian Dangerous Goods

IMDG: International Maritime Code of Dangerous Goods

IATA: International Air Transport Association

End of SDS

### DISCLAIMER:

This SAFETY DATA SHEET has been developed according to the Work Health and Safety Regulations (WHS Regulations) Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this SAFETY DATA SHEET is to describe product in terms of their safety requirements. Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product. The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with Relevant Federal, State and Local Government