



Section 1: Identification: Product identifier and chemical identity

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| Product Identifier: | CHOICE TEB PRO 420 FUNGICIDE |
| Other Means of Identification: | Grow Choice product code number: 420 10 AVPMA registered number: 89172 |
| Recommended Use: | A fungicide as per the Directions for Use. Always read the product label and any attached leaflet before use. |
| Details of manufacturer or importer: | Grow Choice Pty Ltd ABN 36 161 264 884 |
| Address: | 113 Fitzroy Street TAMWORTH NSW 2340 AUSTRALIA |
| Website: | www.growchoice.com.au |
| Phone Number & Email: | (02) 6766 3979 - admin@growchoice.com.au |
| Emergency Phone Number: | In Case Of Emergency Dial 000 |
| Poisons Information Centre: | Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax: +61 2 9845 3597 http://www.chw.edu.au/poisons/contact.htm |

Section 2: Hazards identification

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| This material is hazardous according to Safe Work Australia; HAZARDOUS CHEMICAL. | |
| Classification of the substance and mixture: | Reproductive toxicity: Category 2 H361 Suspected of damaging fertility or the unborn child. Specific target organ toxicity - repeated exposure: Category 2 H373 May cause damage to organs through prolonged or repeated exposure. Acute aquatic toxicity: Category 1 H400 Very toxic to aquatic life. Chronic aquatic toxicity: Category 1 H410 Very toxic to aquatic life with long lasting effects |
| Label elements: | Hazard label for supply/use required |
| Hazardous components which must be listed on the label: | Prothioconazole Tebuconazole |
| Signal word: | Warning |
| Hazard statements: | H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. |
| Precautionary statements: | P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe spray. P281 Use personal protective equipment as required. P314 Get medical advice/ attention if you feel unwell. P308 + P313 If exposed or concerned: Get medical advice/ attention. P405 Store locked up. P501 Dispose of contents/container in accordance with local regulation. |
| Other hazards: | No other hazards known. |

Section 3: Composition and information on ingredients

Chemical nature

Prothioconazole: Tebuconazole 210:210g/l

Suspension concentrate (=flowable concentrate)(SC)

| Chemical name | CAS No | Concentration [%] |
|--|-------------|-----------------------|
| Prothioconazole | 178928-70-6 | 18.75 |
| Tebuconazole | 107534-96-3 | 18.75 |
| Glycerine | 56-81-5 | 3.00 |
| 1,2-Benzisothiazol-3(2H)-one | 2634-33-5 | >= 0.005 - <= 0.05 |
| Mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one | 55965-84-9 | >= 0.0002 - <= 0.0015 |
| Other ingredients (non-hazardous) to 100% | | |

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.

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| Inhalation: | Move the victim to fresh air and keep at rest. Call a physician or poison control centre immediately. |
| Skin contact: | Take off contaminated clothing and shoes immediately. Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. Call a physician or poison control centre immediately. |
| Eye contact: | Hold eye open and rinse slowly and gently with water for 15-20 minutes. Call a physician or poison control centre immediately. |
| Ingestion: | Rinse mouth. Do NOT induce vomiting. Keep patient warm and at rest. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately. |
| Most important symptoms and effects, both acute and delayed: | To date, no symptoms are known. |
| Indication of immediate medical attention and special treatment needed: | 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

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| Suitable Extinguishing Equipment: | Water, Foam, Carbon dioxide (CO ₂), Dry chemical. |
| Specific hazards arising from the substance or mixture: | In the event of fire the following may be released: Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon monoxide (CO), Sulphur oxides, Nitrogen oxides (NO _x). |
| Special Protective Equipment & Precautions for Fire Fighters: | Wear self-contained breathing apparatus and protective suit. |
| Further information: | Evacuate personnel to safe areas. Remove product from areas of fire, or otherwise cool containers with water in order to avoid pressure being built up due to heat. Whenever possible, contain fire-fighting water by diking area with sand or earth. Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazchem Code: | •3Z |

Section 6: Accidental release measures

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| Personal precautions, protective equipment and emergency procedures: | Avoid contact with spilled product or contaminated surfaces. When dealing with a spillage do not eat, drink or smoke. Keep unauthorised people away. Use personal protective equipment. |
| Environmental precautions: | Contain contaminated water and fire fighting water. Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up: | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations. |
| Reference to other sections: | 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

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

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| Advice on safe handling: | Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. |
| Hygiene measures: | Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. |
| Conditions for safe storage, including any incompatibilities: | Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area. Protect from freezing. |

Section 8: Exposure controls and personal protection

Control Parameters:

| Components | CAS No | Control parameters | Update | Basis |
|-------------------------------|-------------|-----------------------|---------|---------|
| Prothioconazole | 178928-70-6 | 1.4 mg/m3 (SK-ABS) | | |
| Tebuconazole | 107534-96-3 | 0.2 mg/m3 (SK-ABS) | | |
| Glycerine (Inhalable mist) | 56-81-5 | 10 mg/m3 (TWA) | 12 2011 | AU NOEL |

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| Respiratory protection: | Use respiratory protection for organic vapours. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance. |
| Hand protection: | Chemical resistant nitrile rubber gloves. |
| Eye protection: | Goggles. |

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| Skin and body protection: | Wear long-sleeved shirt and long pants and shoes plus socks. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. |
| General protective measures: | In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the above mentioned recommendations would apply. |
| Engineering Controls Advice on safe handling: | Handle and open container in a manner as to prevent spillage. Use only in area provided with appropriate exhaust ventilation. |

Section 9: Physical and chemical properties

Information on basic physical and chemical properties:

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| Appearance: | White to light beige suspension | Flash Point: | Not relevant; aqueous solution |
| pH: | 6.5 - 8.5 at 100 % (23°C) | Density: | ca. 1.12 g/cm ³ at 20°C |
| Partitioning coefficient n-octanol/water (log Pow): | Prothioconazole: log Pow: 3.82 at 20°C Tebuconazole: log Pow: 3.7 | | |
| Viscosity, dynamic: | 100 - 300 mPa.s at 20°C Velocity gradient 20 /s 50 - 120 mPa.s at 20°C Velocity gradient 100 /s 150 - 350 mPa.s at 20°C Velocity gradient 39.1 /s | | |

Other information: Further safety related physical-chemical data are not known.

Section 10: Stability and reactivity

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| Reactivity | Stable under normal conditions. |
| Thermal decomposition: | |
| Chemical stability: | Stable under recommended storage conditions. |
| Possibility of hazardous reactions: | No hazardous reactions when stored and handled according to prescribed instructions. Stable under normal conditions. |
| Conditions to avoid: | Heat, flames and sparks. Elevated temperatures. |
| Incompatible materials: | Incompatible with oxidizing agents. |
| Hazardous decomposition products: | Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon monoxide Sulphur oxides Nitrogen oxides (NO _x) |

Section 11: Toxicological information

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

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| Assessment mutagenicity: | Prothioconazole was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests. Tebuconazole was not mutagenic or genotoxic in a battery of in vitro and in vivo tests. |
| Assessment carcinogenicity: | Prothioconazole was not carcinogenic in lifetime feeding studies in rats and mice. Tebuconazole caused at high dose levels an increased incidence of tumours in mice in the following organ(s): Liver. The mechanism of tumour formation is not considered to be relevant to man. |
| Assessment toxicity to reproduction: | Prothioconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Prothioconazole is related to parental toxicity. Tebuconazole caused reproduction toxicity in a two-generation study in rats only at dose levels also toxic to the parent animals. The reproduction toxicity seen with Tebuconazole is related to parental toxicity. |
| Assessment developmental toxicity: | Prothioconazole caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Prothioconazole are related to maternal toxicity. Tebuconazole caused developmental toxicity only at dose levels toxic to the dams. Tebuconazole caused an increased incidence of post implantation losses, an increased incidence of non-specific malformations. |
| Assessment STOT Specific target organ toxicity – single exposure: | Prothioconazole: Based on available data, the classification criteria are not met. Tebuconazole: Based on available data, the classification criteria are not met. |
| Assessment STOT Specific target organ toxicity – repeated exposure: | Prothioconazole did not cause specific target organ toxicity in experimental animal studies. Tebuconazole did not cause specific target organ toxicity in experimental animal studies. |
| Aspiration hazard: | Based on available data, the classification criteria are not met. |
| Information on likely routes of exposure: | Harmful if inhaled. May cause skin irritation. May be harmful if absorbed through skin. May cause eye irritation. Harmful if swallowed. |
| Early onset symptoms related to exposure: | Refer to Section 4. |
| Delayed health effects from exposure: | Refer to Section 11. |
| Exposure levels and health effects: | Refer to Section 4. |
| Interactive effects: | Not known. |
| When specific chemical data is not available: | Not applicable. |
| Mixture of chemicals: | Refer to Section 2.1. |
| Further information: | No further toxicological information is available. |

Section 12: Ecological information

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| Toxicity to fish: | LC50 (Oncorhynchus mykiss (rainbow trout)) 1.83 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient prothioconazole. LC50 (Oncorhynchus mykiss (rainbow trout)) 5.7 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient tebuconazole. LC50 (Oncorhynchus mykiss (rainbow trout)) 4.4 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient tebuconazole. |
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| Toxicity to aquatic invertebrates: | LC50 (Daphnia magna (Water flea)) 1.3 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient prothioconazole. LC50 (Daphnia magna (Water flea)) 4.2 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient tebuconazole. |
| Toxicity to aquatic plants: | EC50 (Raphidocelis subcapitata (freshwater green alga)) 2.18 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient prothioconazole. EC50 (Raphidocelis subcapitata (freshwater green alga)) 3.8 mg/l Exposure time: 72 h The value mentioned relates to the active ingredient tebuconazole. |
| Toxicity to other organisms: | LD50 (Colinus virginianus (Bobwhite quail)) > 2,000 mg/kg The value mentioned relates to the active ingredient prothioconazole. LD50 (Colinus virginianus (Bobwhite quail)) 1,988 mg/kg The value mentioned relates to the active ingredient tebuconazole. |
| Biodegradability: | Prothioconazole: Not rapidly biodegradable. Tebuconazole: Not rapidly biodegradable. |
| Koc: | Prothioconazole: Koc: 1765; log Koc: < 3 Tebuconazole: Koc: 769 |
| Bioaccumulative potential: | Prothioconazole: Bioconcentration factor (BCF) 19 Does not bioaccumulate. Tebuconazole: Bioconcentration factor (BCF) 35 - 59 Does not bioaccumulate. |
| Mobility in soil: | Prothioconazole: Slightly mobile in soils Tebuconazole: Slightly mobile in soils |
| Additional ecological information: | No other effects to be mentioned. |

Section 13: Disposal considerations

Metal drums and plastic 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 bury empty containers in a 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.

Do not reuse container for any other purpose.

Section 14: Transport information

ADG

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| UN number: | 3082 | Packing group: | III |
| Hazard class: | 9 | Subsidiary Risk: | None |
| Description of the goods: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE SOLUTION) | | |
| 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.

IMDG

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| UN Number: | 3082 | Packing Group: | III |
| Hazard class: | 9 | Subsidiary Risk: | None |
| Marine pollutant: | Yes | | |
| Description of the goods: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE SOLUTION) | | |

IATA

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| UN Number: | 3082 | Packing Group: | III |
| Hazard class: | 9 | Subsidiary Risk: | None |
| Environmentally hazardous mark: | Yes | | |
| Description of the goods: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (TEBUCONAZOLE, PROTHIOCONAZOLE SOLUTION) | | |

Section 15: Regulatory information

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| Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 5 | |
| Registration status: Registered | APVMA approval: 89172 |

Section 16: Any other relevant information

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| Date of preparation or last revision: June 2020 |
| Source of Data: The information provided in this SDS is sourced from Grow Choice studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists. |
| Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions |
| CONTACT POINT: Grow Choice Pty Ltd (02) 6766 3979 24 HOURS EMERGENCY CONTACT: 13 11 26 |
| This Material Safety Data Sheet 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 should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. |
| DISCLAIMER This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Grow Choice's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Grow Choice shall have no liability. |

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