

## Safety Data Sheet

according to WHS Regulations

Date of issue: 15.05.2025

Revision date: 28.04.2025

### 1 Identification

**Product Name:** Patchwork Tuf Fungicide

**Other Means of Identification:** Mixture

**APVMA Approval Number:** 66493

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

**Details of Manufacturer or Importer:**

Australian Agribusiness (Holdings) Pty Ltd  
Suite 201, Level 2, 3 Rider Boulevard  
Rhodes NSW 2138

**Phone Number:** 02 9395 1200 (office hours)

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

### 2 Hazard(s) Identification

**Hazardous Nature:**

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition), IATA and IMDG/IMSBC.

Not subject to the ADG Code when transported in Australia by Road or Rail in packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply.



GHS06 Skull and crossbones

Acute toxicity - inhalation – Category 3

H331

Toxic if inhaled.



GHS08 Health hazard

Reproductive toxicity – Category 1B

H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to breast-fed children.



GHS09 Environment

Aquatic Chronic 2

H411

Toxic to aquatic life with long lasting effects.



GHS07

Acute toxicity - oral – Category 4

H302

Harmful if swallowed.

Skin corrosion/irritation – Category 2

H315

Causes skin irritation.

Eye damage/irritation – Category 2A

H319

Causes serious eye irritation.

Specific target organ toxicity (single exposure) – Category 3

H335

May cause respiratory irritation.

**Signal Word** Danger

(Contd. on page 2)

# Safety Data Sheet

according to WHS Regulations

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Revision date: 28.04.2025

**Product Name: Patchwork Tuf Fungicide**

(Contd. of page 1)

**Hazard Statements**

H302 Harmful if swallowed.  
 H331 Toxic if inhaled.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H360FD-H362 May damage fertility. May damage the unborn child. May cause harm to breast-fed children.  
 H335 May cause respiratory irritation.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P260 Do not breathe dusts or mists.  
 P263 Avoid contact during pregnancy/while nursing.  
 P264 Wash thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
 P330 Rinse mouth.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P308+P313 IF exposed or concerned: Get medical advice/attention.  
 P321 Specific treatment (see on this label).  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P391 Collect spillage.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 3 Composition and Information on Ingredients

**Chemical Characterization: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 872-50-4	N-methyl-2-pyrrolidone	60.2%
	☠ Reproductive toxicity – Category 1B, H360D; ☠ Skin corrosion/irritation – Category 2, H315; Eye damage/irritation – Category 2A, H319; Specific target organ toxicity (single exposure) – Category 3, H335	
CAS: 55219-65-3	Triadimenol	25.0%
	☠ Acute toxicity - inhalation – Category 3, H331; ☠ Reproductive toxicity – Category 1B, H360-H362; ☠ Aquatic Chronic 2, H411; ☠ Acute toxicity - oral – Category 4, H302	

**Non Hazardous Components:**

Other non-hazardous ingredients	to 100.0%
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(Contd. on page 3)

# Safety Data Sheet

according to WHS Regulations

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Revision date: 28.04.2025

**Product Name: Patchwork Tuf Fungicide**

(Contd. of page 2)

## 4 First Aid Measures

**Inhalation:**

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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, rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:**

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

## 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Water fog, foam, dry chemical or carbon dioxide.

**Specific Hazards Arising from the Chemical:**

Hazardous combustion products include toxic fumes.

Combustible product

Containers close to fire should be removed only if safe to do so. Use water spray to cool fire exposed containers.

Minimise run-off from fire fighting entering drains or water courses.

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

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

If a significant quantity of this product is involved in a fire, call the fire brigade.

## 6 Accidental Release Measures

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

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

**Environmental Precautions:**

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

Inform respective authorities in case of seepage into water course or sewage system.

**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.

## 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.

Take precautionary measures against static discharge. 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. Protect from heat, sparks, open flames and other sources of ignition. Keep away from strong oxidising agents and acids.

(Contd. on page 4)

# Safety Data Sheet

according to WHS Regulations

Date of issue: 15.05.2025

Revision date: 28.04.2025

**Product Name: Patchwork Tuf Fungicide**

(Contd. of page 3)

## 8 Exposure Controls and Personal Protection

**Exposure Standards:****CAS: 872-50-4 N-methyl-2-pyrrolidone**

WES	STEL: 309 mg/m <sup>3</sup> , 75 ppm TWA: 103 mg/m <sup>3</sup> , 25 ppm Sk
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**Engineering Controls:** Natural ventilation should be adequate under normal use conditions.**Respiratory Protection:** Respiratory protection is not required under normal use conditions.**Skin Protection:**

Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered.

Suitable material types: butyl rubber.

**Eye and Face Protection:**

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

## 9 Physical and Chemical Properties

**Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	Pale amber/brown
<b>Odour:</b>	Aromatic
<b>Odour Threshold:</b>	No information available
<b>pH-Value:</b>	6.0-8.0 (1% in water)
<b>Melting point/freezing point:</b>	No information available
<b>Initial Boiling Point/Boiling Range:</b>	No information available
<b>Flash Point:</b>	Not applicable
<b>Flammability</b>	Not applicable
<b>Auto-ignition Temperature:</b>	245 °C
<b>Decomposition Temperature:</b>	No information available
<b>Explosion Limits:</b>	
<b>Lower:</b>	No information available
<b>Upper:</b>	No information available
<b>Vapour Pressure at 20 °C:</b>	0.3 hPa
<b>Relative Density:</b>	Not determined.
<b>Vapour Density:</b>	No information available
<b>Evaporation Rate:</b>	No information available
<b>Solubility in Water:</b>	Insoluble
<b>Partition Coefficient (n-octanol/water):</b>	No information available
<b>Organic solvents:</b>	602.0 %
<b>Solids content:</b>	0.0 %
<b>Physical state</b>	Liquid

## 10 Stability and Reactivity

**Possibility of Hazardous Reactions:** No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:**

Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

(Contd. on page 5)

# Safety Data Sheet

## according to WHS Regulations

Date of issue: 15.05.2025

Revision date: 28.04.2025

**Product Name: Patchwork Tuf Fungicide**

(Contd. of page 4)

**Incompatible Materials:** Strong acids, strong bases, oxidising agents.**Hazardous Decomposition Products:**

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. May form hydrogen chloride gas, other compounds of chlorine. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

## 11 Toxicological Information

**Toxicity:****LD50/LC50 Values:****CAS: 872-50-4 N-methyl-2-pyrrolidone**

Oral	LD50	4,150 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>5,000 mg/kg (Rattus norvegicus (rat))

**CAS: 55219-65-3 Triadimenol**

Oral	LD50	721 mg/kg (Rattus norvegicus (rat))
Dermal	LD50	>5,000 mg/kg (Rattus norvegicus (rat))
Inhalation	LC50/4 h	>0.954 mg/l (Rattus norvegicus (rat))
	LD50	>2,000 mg/kg (Colinus virginianus (bobwhite quail))

**Acute Health Effects****Inhalation:** Harmful if inhaled.**Skin:** May cause skin irritation.**Eye:** May cause eye irritation.**Ingestion:** May cause gastrointestinal irritation, nausea, diarrhoea and vomiting.**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye irritation.**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:** Based on classification principles, the classification criteria are not met.**Reproductive Toxicity:**

May cause harm to breast-fed children.

May damage fertility or the unborn child.

**Specific Target Organ Toxicity (STOT) - Single Exposure:** May cause respiratory irritation.**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 data associated with long term health effects.**Existing Conditions Aggravated by Exposure:** No data available.**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for Triadimenol for a human is 0.03 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 3.4 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: Australian Pesticides and Veterinary Medicines Authority, 'Acceptable Daily Intakes for Agricultural and Veterinary Chemicals', 2024)

(Contd. on page 6)

# Safety Data Sheet

according to WHS Regulations

Date of issue: 15.05.2025

Revision date: 28.04.2025

**Product Name: Patchwork Tuf Fungicide**

(Contd. of page 5)

## 12 Ecological Information

**Ecotoxicity:****Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**CAS: 872-50-4 N-methyl-2-pyrrolidone**

EC50/48 h	4,897 mg/l (Daphnia magna (water flea))
EC50/72 h	672 mg/l (Desmodesmus subspicatus (green algae))
LC50/96 h	>500 mg/l (Oncorhynchus mykiss (rainbow trout))

**CAS: 55219-65-3 Triadimenol**

EC50/96 h	9.6 mg/l (Daphnia magna (water flea))
LC50/96 h	21.3 mg/l (Oncorhynchus mykiss (rainbow trout))
LC50/48 h	51 mg/l (Daphnia magna (water flea))

**Persistence and Degradability:** No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

## 13 Disposal Considerations

**Disposal Methods and Containers:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
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, IMDG, IATA**

UN3082

**Proper Shipping Name****ADG**

3082 ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S. (Triadimenol)  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE,  
LIQUID, N.O.S. (Triadimenol)

**IMDG, IATA****Dangerous Goods Class****ADG Class:**

9

**Packing Group:****ADG, IMDG, IATA**

III

**Marine pollutant:**

Symbol (fish and tree)

**EMS Number:**

F-A,S-F

**Hazchem Code:**

•3Z

**Special Provisions:**

274, 331, 335, 375, AU01

**Transport/Additional information:**

Not subject to the ADG Code when transported by road  
or rail in packagings that do not incorporate a receptacle  
exceeding 500 kg(L) or IBCs. (refer to SP AU01)

(Contd. on page 7)

# Safety Data Sheet

according to WHS Regulations

Date of issue: 15.05.2025

Revision date: 28.04.2025

**Product Name: Patchwork Tuf Fungicide**

(Contd. of page 6)

**Limited Quantities:** 5L

**Packagings & IBCs - Packing Instruction:** P001, IBC03, LP01

**Packagings & IBCs - Special Packing Provisions:** PP1

**Portable Tanks & Bulk Containers - Instructions:** T4

**Portable Tanks & Bulk Containers - Special Provisions:** TP1, TP29

## 15 Regulatory Information

### Australian Inventory of Industrial Chemicals:

CAS: 872-50-4 | N-methyl-2-pyrrolidone

### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Poisons Schedule: 6

### Australian Pesticides and Veterinary Medicines Authority:

This product is registered with the Australian Pesticides and Veterinary Medicines Authority. APVMA approval number 66493.

## 16 Other Information

**Date of Preparation or Last Revision:** 28.04.2025**Prepared by:** MSDS.COM.AU Pty Ltd[www.msds.com.au](http://www.msds.com.au)

### Abbreviations and acronyms:

ADG: Australian Dangerous Goods  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 LC50: Lethal concentration, 50 percent  
 LD50: 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)  
 Acute toxicity - oral – Category 4: Acute toxicity – Category 4  
 Acute toxicity - inhalation – Category 3: Acute toxicity – Category 3  
 Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2  
 Eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A  
 Reproductive toxicity – Category 1B: Reproductive toxicity – Category 1B  
 Reproductive toxicity – Category 1B: Reproductive toxicity – Category 1B  
 Reproductive toxicity – Category 1B: Reproductive toxicity – Category 1B  
 Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3  
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

### Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - June 2023".

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Australian Agribusiness 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. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. 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.