

1 Identification

Product Name: TITAN CAPTAN 900 WG FUNGICIDE

Other Means of Identification: Mixture

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

Details of Manufacturer or Importer:

Titan Ag Pty Ltd
15/16 Princes Street
Newport NSW 2106

Phone Number: 02 9999 6655

Emergency telephone number: 02 9999 6655

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.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).



skull and crossbones

Acute Toxicity (Inhalation) 3 H331 Toxic if inhaled.



health hazard

Germ Cell Mutagenicity 1B H340 May cause genetic defects.

Carcinogenicity 2 H351 Suspected of causing cancer.



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



Skin Sensitisation 1 H317 May cause an allergic skin reaction.

Signal Word Danger

Hazard Statements

H331 Toxic if inhaled.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H340 May cause genetic defects.

H351 Suspected of causing cancer.

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H400 Very toxic to aquatic life.

Precautionary Statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep 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.
P310	Immediately call a POISON CENTER/doctor.
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.
P333+P313	If skin irritation or rash occurs: 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 regulations.

3 Composition and Information on Ingredients

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

CAS: 133-06-2	Captan (ISO)	90%
	⚠ Acute Toxicity (Inhalation) 3, H331; ⚠ Germ Cell Mutagenicity 1B, H340; ⚠ Carcinogenicity 2, H351; ⚠ Serious Eye Damage/Irritation 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Skin Sensitisation 1, H317	
CAS: 14807-96-6	Talc (Mg ₃ H ₂ (SiO ₃) ₄)	0 - 10%

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, hold eyelids open and rinse with water for at least 15 minutes. Seek medical attention if symptoms occur.

Ingestion:

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

Symptoms Caused by Exposure:

Inhalation: Toxic if inhaled. May cause headache, nausea, dizziness and weakness.

Skin Contact: May cause an allergic skin reaction. May cause mild skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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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 oxides of carbon and nitrogen, hydrogen chloride and thiophosgene.

This product is not flammable, but may burn or decompose in a fire.

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

Special Protective Equipment and Precautions for Fire Fighters:

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

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

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 sweep granules into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation. Decontaminate spill area with detergent and water.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

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 extreme temperatures and direct sunlight. Keep away from strong oxidising agents.

8 Exposure Controls and Personal Protection

Exposure Standards:

CAS: 133-06-2 Captan (ISO)

WES	TWA: 0.5 mg/m ³
	Sk, Sen

CAS: 14807-96-6 Talc (Mg₃H₂(SiO₃)₄)

WES	TWA: 2.5 mg/m ³
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Engineering Controls:

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and

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permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Granulate
Colour:	Grey-Brown
Odour:	Faint characteristic odour
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	175 - 178 °C
Initial Boiling Point/Boiling Range:	No information available
Flash Point:	No information available
Flammability:	Product is not flammable.
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure at 25 °C:	<1.3 mPa
Density:	No information available
Relative Density:	No information available
Vapour Density:	No information available
Evaporation Rate:	No information available
Solubility in Water:	Dispersible
Partition Coefficient (n-octanol/water) at 25 °C:	2.8 log POW

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: Extreme temperatures and direct sunlight.

Incompatible Materials: Strong oxidising agents.

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

11 Toxicological Information

Toxicity:**LD50/LC50 Values Relevant for Classification:****CAS: 133-06-2 Captan (ISO)**

Oral	LD50	9,000 mg/kg (rat)
Dermal	LD50	>4,500 mg/kg (rabbit)
Inhalation	LC50	0.668 mg/l (rat)

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Acute Health Effects**Inhalation:** Toxic if inhaled. May cause headache, nausea, dizziness and weakness.**Skin:** May cause an allergic skin reaction. May cause mild skin irritation.**Eye:** Causes serious eye damage.**Ingestion:** May cause gastrointestinal irritation, nausea, vomiting and diarrhoea.**Skin Corrosion / Irritation:** Based on classification principles, the classification criteria are not met.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** May cause an allergic skin reaction.**Germ Cell Mutagenicity:** May cause genetic defects.**Carcinogenicity:**

Suspected of causing cancer.

Captan and talc not containing asbestos or asbestiform fibres are classified by IARC as Group 3 - Not classifiable as to its carcinogenicity to humans.

Reproductive Toxicity: Based on classification principles, the classification criteria are not met.**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:** Repeated or prolonged skin exposure may cause irritation and dermatitis.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for captan for a human is 0.1 mg/kg/day, set for the public for daily, lifetime exposure. This is based on the NOAEL of 10 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', 2020).

12 Ecological Information

Ecotoxicity:

Non-toxic to birds and bees.

LD50 >5000 mg/kg (Pheasant)

LD50 >5000 mg/kg (Mallard)

LD50 2000 - 4000 mg/kg (Bobwhite quail)

LD50 91 µg/bee

Aquatic toxicity:

Very Toxic to aquatic life with long lasting effects.

CAS: 133-06-2 Captan (ISO)

LC50/96 h 0.072 mg/l (bluegill)

0.034 mg/l (trout)

LC50/48 h 7-10 mg/l (daphnia)

Persistence and Degradability: No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.

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Mobility in Soil: No further relevant information available.**Other adverse effects:** No further relevant information available.

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 subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg(L) or less; or IBCs (refer to SP AU01).
UN3077**IMDG, IATA****Proper Shipping Name****ADG****IMDG**Not Regulated.
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan (ISO)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Captan (ISO))**IATA****Dangerous Goods Class****ADG Class:****IMDG Class:**Not Regulated.
9 Miscellaneous dangerous substances and articles.**Packing Group:****ADG****IMDG, IATA**Not Regulated.
III**Marine pollutant:**Yes
Symbol (fish and tree)**EMS Number:**

F-A,S-A

Hazchem Code:

2Z

Special Provisions:

274, 331, 335, 375, AU01

Limited Quantities:

5 kg

Packagings & IBCs - Packing Instruction:

P002, IBC08, LP02

Packagings & IBCs - Special Packing Provisions: PP12, B3**Portable Tanks & Bulk Containers - Instructions:** T1, BK2, BK3**Portable Tanks & Bulk Containers - Special****Provisions:**

TP33

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 133-06-2 Captan (ISO)

CAS: 14807-96-6 Talc (Mg3H2(SiO3)4)

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

Poisons Schedule: 6

16 Other Information

Date of Preparation or Last Revision: 07.10.2020**Prepared by:** MSDS.COM.AU Pty Ltdwww.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 (Inhalation) 3: Acute toxicity - inhalation – Category 3

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B

Carcinogenicity 2: Carcinogenicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1

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 - May 2018"

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