



Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2019

Revision: 26.09.2019

1 Identification

Product Name: TITAN MTALAXYL 50G GRANULAR SYSTEMIC 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 Princess 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 classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



Skin Sensitisation 1 H317 May cause an allergic skin reaction.

Signal Word Warning

Hazard Statements

H317 May cause an allergic skin reaction.

Precautionary Statements

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- 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: 57837-19-1	Metalaxyl (ISO)	5%
Acute Toxicity (Oral) 4, H302; Skin Sensitisation 1, H317; Aquatic Chronic 3, H412		

4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems develop.

(Contd. on page 2)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2019

Revision: 26.09.2019

Product Name: TITAN MTALAXYL 50G GRANULAR SYSTEMIC FUNGICIDE

(Contd. of page 1)

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: May cause harmful effects if inhaled.

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

Eye Contact: May cause eye irritation.

Ingestion: May cause harmful effects if swallowed. May cause nausea, vomiting and abdominal pains.

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 gases.

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. Wash spill area with water, preventing runoff from entering drains.

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. Contaminated work clothing must not be allowed out of the workplace. 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. Do not store in direct sunlight for prolonged periods. Keep away from strong oxidising agents.

(Contd. on page 3)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2019

Revision: 26.09.2019

Product Name: TITAN MTALAXYL 50G GRANULAR SYSTEMIC FUNGICIDE

(Contd. of page 2)

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:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Rubber 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 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: Granular solid

Colour: Cream to grey colour.

Odour: Odourless

Odour Threshold: No information available

pH-Value: No information available

Melting point/freezing point: No information available

Initial Boiling Point/Boiling Range: No information available

Flash Point: No information available

Flammability: Product is not flammable.

Auto-ignition Temperature: Not applicable

Decomposition Temperature: No information available

Explosion Limits:

Lower: Not applicable

Upper: Not applicable

Vapour Pressure at 25 °C: 0.75 mPa

Relative Density: 0.784

Vapour Density: Not applicable.

Evaporation Rate: Not applicable

Solubility in Water: No information available

Partition Coefficient (n-octanol/water): 1.75 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.

(Contd. on page 4)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2019

Revision: 26.09.2019

Product Name: TITAN MTALAXYL 50G GRANULAR SYSTEMIC FUNGICIDE

(Contd. of page 3)

Incompatible Materials: Strong oxidising agents.**Hazardous Decomposition Products:** Toxic gases.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 57837-19-1 Metalaxyl (ISO)**

Oral	LD ₅₀	669 mg/kg (rat)
Dermal	LD ₅₀	>3,100 mg/kg (rat)
Inhalation	LC ₅₀ /4 h	>3.6 mg/l (rat)

Acute Health Effects**Inhalation:** May cause harmful effects if inhaled.**Skin:** May cause an allergic skin reaction. May cause skin irritation.**Eye:** May cause eye irritation.**Ingestion:** May cause harmful effects if swallowed. May cause nausea, vomiting and abdominal pains.**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:** May cause an allergic skin reaction.**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:** 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:** Prolonged or repeated skin contact may cause sensitisation.**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:**

The Australian Acceptable Daily Intake (ADI) for metalaxyl 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 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', 2019).

12 Ecological Information

Ecotoxicity:

Practically non-toxic to birds and freshwater fish.

Non-toxic to bees.

LD50 1466 mg/kg (mallard duck)

LD50 >200 µg/bee.

(Contd. on page 5)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2019

Revision: 26.09.2019

Product Name: TITAN MTALAXYL 50G GRANULAR SYSTEMIC FUNGICIDE

(Contd. of page 4)

Aquatic toxicity:	
CAS: 57837-19-1 Metalaxyl (ISO)	
EC ₅₀ /48 h	3.47 mg/l (daphnia)
LC ₅₀ /96 h	>100 mg/l (bluegill)
	>100 mg/l (carp)
	0.96 mg/l (rainbow trout)
LC ₅₀	12.5-28 mg/l (daphnia)

Persistence and Degradability: Metalaxyl has a half-life in soil of 1 - 8 weeks, depending on the soil type.

Bioaccumulative Potential: Bioaccumulation is not expected to occur.

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 Not regulated

Proper Shipping Name Not regulated

Dangerous Goods Class Not regulated

Packing Group: Not regulated

15 Regulatory Information

Australian Inventory of Chemical Substances:

CAS: 57837-19-1 Metalaxyl (ISO)

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

Poisons Schedule: 5

16 Other Information

Date of Preparation or Last Revision: 26.09.2019

Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

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) 4: Acute toxicity – Category 4

Skin Sensitisation 1: Skin sensitisation, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment, long-term (Chronic). Category 3

(Contd. on page 6)

Safety Data Sheet

according to WHS Regulations

Printing date 26.09.2019

Revision: 26.09.2019

Product Name: TITAN MTALAXYL 50G GRANULAR SYSTEMIC FUNGICIDE

(Contd. of page 5)

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 - February 2016"

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Titan Ag 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. 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.