



MATERIAL SAFETY DATA SHEET

TITAN PROPICONAZOLE 250 EC FUNGICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Titan Propiconazole 250 EC Fungicide
Product Code	-
Other Names	-
Product Use	Agricultural fungicide
Company Name	Titan Ag Pty Ltd
Address	3/14 Narabang Way Belrose NSW 2085
Telephone Number	02 9986 2943
Emergency Telephone	02 9986 2943

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Classified as hazardous according to the criteria of ASCC.

Hazards Xn – Harmful

Risk Phrases R22 - Harmful if swallowed.

Safety Phrases S2 - Keep out of reach of children.
S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Propiconazole	60207-90-1	25%
Liquid hydrocarbon	Proprietary	To 100%

4. FIRST AID MEASURES

Inhalation	If inhaled remove victim to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Seek immediate medical attention.
Ingestion	Immediately rinse mouth with water. If swallowed, do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Skin	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly. Seek medical attention if symptoms persist.
Eyes	If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek medical



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attention if symptoms persist.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

For major fires call the Fire Brigade. Ensure that an escape path is available from any fire.

Hazardous Combustion Products

Carbon dioxide, dry chemical, foam or water fog.

Firefighting Equipment

Carbon dioxide, carbon monoxide and smoke.

Unusual Fire or Explosion Hazards

Recommended use of self contained breathing apparatus and full protective equipment.

This product is classified as a **C1 – combustible product**.

There is a moderate risk of an explosion if this product is involved in fire.

Hazchem Code

Not allocated.

6. ACCIDENTAL RELEASE MEASURES

Spills

In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection.

Stop leak if safe to do so, and contain spill. Absorb onto sand, clay or other suitable absorbent material. Sweep up and shovel or collect recoverable product into labelled containers for disposal. Launder protective clothing before storage or re-use.

7. HANDLING AND STORAGE

Handling

Exercise normal care in handling. Avoid unnecessary skin and eye contact.

Storage

Store in the closed, original container in a dry, well ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (ASCC)

No exposure standards set.

**Engineering Controls
Respiratory Protection**

Use local exhaust ventilation.

Respiratory protection not necessary. Avoid working in and breathing spray mist.

Eye Protection

Wear safety glasses with side shields (or goggles) and a face shield.

Skin Protection

Wear protective gloves and protective clothing.

Hygienic Practices 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear yellow-amber liquid
Odour	Hydrocarbon odour
Solubility in water	Completely soluble
Boiling Point	No information available
Freezing Point	No information available
Vapour Pressure	No information available
Vapour Density (Air = 1)	No information available
Specific Gravity	~1.0
Flash Point (closed cup)	No information available
Flammable Limit – Lower	Not applicable
Flammable Limit – Upper	Not applicable

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal storage conditions.
Incompatible Materials	Strong oxidising agents.
Hazardous Decomposition Products	Carbon dioxide, carbon monoxide and smoke.
Hazardous Polymerization	Will not occur.
Conditions to Avoid	No information available.

11. TOXICOLOGICAL INFORMATION

Toxicity	Acute oral LD ₅₀ (Rat) = 1517 mg/kg Acute oral LD ₅₀ (Mouset) = 1419 mg/kg Acute dermal LD ₅₀ (Rabbit) >6000 mg/kg Acute dermal LD ₅₀ (Rat) >4000 mg/kg Inhalation -LC ₅₀ (Rat) > 5800 mg/m ³ – 4 hours
Routes of Exposure	Inhalation, ingestion, eye and skin
Health effects from likely routes of exposure	Inhalation: May cause irritation to upper respiratory tract, increased secretion of mucous in the nose and throat and headache. Ingestion: Harmful if swallowed. May cause burning sensation and reddening of skin in mouth and throat. Eye: Can cause irritation with reddening and watering. Skin: Can cause irritation with itchiness and reddening.
Effects of Overexposure	No information available.
Existing Conditions	No information available.
Aggravated by Exposure	
Carcinogenicity	No (ASCC, NTP, IARC)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Organisms:

Algae EC₅₀ = 0.02-13.6mg/L
LC₅₀ (Rainbow trout) = 5.3 mg/L
LC₅₀ (Carp) = 6.8 mg/L
LC₅₀ (Golden orfe) = 5.1mg/L

Birds:

LD₅₀ (Japanese quail) = 2223 mg/kg
LD₅₀ (Mallard duck) > 2510 mg/kg
LD₅₀ (Bobwhite quail) > 2825 mg/kg

Other Animals:

Propiconazole is non-toxic to bees.

Mobility

Estimated half-life in the soil: 110 days

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers

Dispose according to applicable local and state government regulations.
Instructions concerning the disposal of this product and its containers are given on the product label.

Special precautions for landfill or incineration

Please consult your state Land Waste Management Authority for more information

14. TRANSPORT INFORMATION

Not classified as a dangerous good according to the Australian Code for the Transport of Dangerous goods by road or rail.

UN Number	Not applicable
Proper Shipping Name	Not applicable
Dangerous Goods Class	Not applicable
Hazchem Code	Not applicable
Packing Group	Not applicable
Special Precautions	Not applicable

15. REGULATORY INFORMATION

Propiconazole is listed in the Australian Inventory of Chemical Substances (AICS).

SUSDP Classification: S6



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16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (24/12/2008)
Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used IARC: International Agency for Research on Cancer
NOHSC: National Occupational Health and Safety Commission
NTP: National Toxicology Program (U.S.)
OSHA: Occupational Safety and Health Administration (U.S.)
STEL: Short term exposure limit
TWA: Time weighted average

Emergency Contacts

Titan Ag Pty Ltd	02 9986 2943
Titan Ag Pty Ltd – Emergency Number	02 9986 2943
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.