



MATERIAL SAFETY DATA SHEET

TITAN PROCYMIDONE 500 FUNGICIDE

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	Titan Procymidone 500 Fungicide
Product Code	-
Other Names	-
Product Use	Agricultural Fungicide
Company Name	Titan Ag Pty Ltd
Address	15/16 Princes Street Newport NSW 2106
Telephone Number	02 9999 6655
Emergency Telephone	02 9999 6655

2. HAZARDS IDENTIFICATION

HAZARDOUS SUBSTANCE. NON DANGEROUS GOODS.

Classified as hazardous according to the criteria of Safe Work Australia.

Hazards	T – Toxic
Risk Phrases	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R61- May cause harm to the unborn child.
Safety Phrases	S2 - Keep out of reach of children. S13 - Keep away from food, drink and animal feeding stuffs. S23 - Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer). S24/25 - Avoid contact with skin and eyes. S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient (common name)	CAS Number	Proportion
Procymidone technical	32809-16-8	50%
Other ingredients deemed not to be hazardous	Proprietary	50%

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.
Ingestion	If swallowed give large quantities of water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Eyes	Seek immediate medical attention. If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. If irritation persists seek medical attention.
Skin	Remove contaminated clothing and wash affected area thoroughly with soap and water. If irritation persists seek medical attention. Launder protective clothing before storage or re-use.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	For major fires call the Fire Brigade. Ensure that an escape path is available from any fire. Use the extinguishing media suitable to the surrounding fire.
Hazardous Combustion Products	Toxic fumes of hydrogen chloride or phosgene.
Firefighting Equipment	Recommended use of self contained breathing apparatus and full protective equipment.
Unusual Fire or Explosion Hazards	If involved in fire, the product will not burn due to water content. However, upon the water evaporation, the product is combustible.
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, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Collect spilled material in sealable open top type containers for disposal.
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7. HANDLING AND STORAGE

Handling	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation.
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 and do not store with seed, fertilisers or foodstuffs.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Standards (Safe Work Australia) Engineering Controls	No exposure standards set. Local exhaust ventilation is recommended when vapours can be released in excess of established airborne exposure limits.
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Respiratory Protection	See Australian Standard AS/NZS 1716 for more information.
Eye Protection	Protective glasses or goggles and face shield.
Skin Protection	Impervious elbow-length gloves and protective clothing.
Hygienic Practices	A safety shower and eye wash station should be accessible from the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque white liquid
Odour	Solvent odour
Solubility in water	Disperses in water
Boiling Point	No information available
Freezing Point	No information available
Vapour Pressure	18 mPa @ 25°C for procymidone
Vapour Density (Air = 1)	No information available
Specific Gravity	1.18
Volatility (% by weight)	~40%
Octano/Water Partition Coefficient	Kow Log P is 3.14 for procymidone.
Flash Point	Not flammable
Flammable Limit – Lower	No information available
Flammable Limit – Upper	No information available
Autoignition Temperature	No information available

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal storage conditions.
Incompatible Materials	Alkaline materials.
Hazardous Decomposition Products	No information available
Hazardous Polymerization Conditions to Avoid	Will not occur. No information available.

11. TOXICOLOGICAL INFORMATION

Toxicity	<p>Procymidone: Oral LD₅₀ (rat) = 6800 mg/kg Dermal LD₅₀ (rat) > 2500 mg/kg Inhalation LC₅₀ (rat) > 1.5 mg/L Evidence from animal studies indicate that repeated or prolonged exposure to procymidone can result in damage to the liver and reproductive system. Studies have shown that exposure to male rats in utero may result in changes to the genital organs. Women of child bearing age should avoid contact with this product. Procymidone is classified as toxic to reproduction - Reproduction Category 1 by Safe Work Australia.</p>
Routes of Exposure	Inhalation, ingestion, eye and skin
Acute Health Effects	Inhalation: May cause irritation to the respiratory tract.



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Ingestion: Swallowing large amounts of concentrate may cause
Eye: nausea and vomiting.
Skin: Can cause eye irritation.
Can cause skin irritation.

Chronic Health Effects Women of child bearing age should avoid contact with this product.
Existing Conditions No information available.
Aggravated by Exposure
Carcinogenicity No (ASSC, NTP, IARC)

12. ECOLOGICAL INFORMATION

Ecotoxicity and Mobility

Procymidone:
Aquatic organisms:
LC₅₀ (Bluegill sunfish) = 10.3 mg/L -96 hours
LC₅₀ (Rainbow trout) = 7.2 mg/L -96 hours
EC₅₀ (Daphnia magna) > 4.2 mg/L -48 hours
LC₅₀ (Scenedesmus subspicatus) = 4.7 mg/L -96 hours
Toxicity ranges from slightly toxic to toxic.
Earthworms:
LC50 -14 day > 1000 mg/kg dry soil – low toxicity
Bees:
LD₅₀ (bees) > 100 µg/be – low toxicity

Environmental fate:
Soil/Environment: Persists in soil for approx. 4 – 12 weeks,
depending on humus content. Procymidone has a low potential for
bioaccumulation in the soil and has moderate mobility in soil.

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers Instructions concerning the disposal of this product and its containers are given on the product label.
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

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



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15. REGULATORY INFORMATION

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

SUSDP Classification: S7

16. OTHER INFORMATION

Last Revision of MSDS Rev 1.0 (13/01/2012)
Prepared by MSDS.COM.AU Pty Ltd www.msds.com.au
Abbreviations Used IARC: International Agency for Research on Cancer
ASCC: Australian Safety and Compensation Council
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 9999 6655
Titan Ag Pty Ltd – Emergency Number	02 9999 6655
Police and Fire Brigade	000
Poisons Information Centre	13 11 26

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Please read instructions / label before using product.

This MSDS is prepared in accord with the Safe Work Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]