

# Material Safety Data Sheet



## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product name: HELMET FUNGICIDE

Synonyms:

CAS-No.:

Molecular Formula:

Supplier: Crop Care Australasia Pty Ltd

ACN: 061 362 347

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Recommended use: Fungicide.

Appearance: Green, viscous liquid.

CHEMICAL ENTITY	CAS NO.	PROPORTION
Ingredients determined not to be hazardous	-	VHIGH
Procymidone	32809-16-8	25% (275 g/L)
		100 %

PROPORTION (% weight per weight):

VHIGH >60, HIGH 30-60, MED 10-29, LOW 1-9, VLOW <1

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS) or are National Registration Authority (NRA) approved active constituents.

## 3. HAZARDS IDENTIFICATION

This material is hazardous according to health criteria of Worksafe Australia.

Hazard Category

T Toxic

R-phrase(s)

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Repr. Cat 2; R61      May cause harm to the unborn child.

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG) for transport by Road and Rail.

**Poisons Schedule (Aust)/Toxic Substance (NZ):** None allocated

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126; New Zealand 03 474 7000).

**Ingestion:** Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical advice.

**Eye contact:** Irrigate with copious quantities of water for 15 minutes. In all cases of eye contamination it is a sensible precaution to seek medical advice.

**Skin contact:** Wash contaminated skin with plenty of water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

**Inhalation:** Remove victim from exposure - avoid becoming a casualty. Seek medical advice if effects persist.

**Notes to physician:** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Specific hazards:** Non-combustible material.

**Fire fighting further advice:** Not combustible, however following evaporation of aqueous component residual material can burn if ignited. On burning may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

**Suitable extinguishing media:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILLS:** Wear protective equipment to prevent skin and eye contamination. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal or re-use. Wash area down with detergent and excess water.

**LARGE SPILLS:** Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled drums for disposal or re-use. Wash area down with detergent and excess water. If contamination of crops or waterways has occurred advise emergency services or State Department of Agriculture.

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## 7. HANDLING AND STORAGE

**Storage:** Store in the closed, original container in a dry, cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Store in a locked room or place away from children, animals, food, feedstuffs, seed and fertilisers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National occupational exposure limits

No value assigned for this specific material by the National Occupational Health and Safety Commission (Worksafe Australia).

**Engineering measures:** IN THE WORKPLACE: Natural ventilation should be adequate under normal use conditions. Keep containers closed when not in use.

**MANUFACTURE, PACKAGING AND TRANSPORT:** Avoid skin and eye contact and the inhalation of vapour. Wear overalls, safety glasses and impervious gloves. Always wash hands before smoking, eating, drinking or using the toilet.

If inhalation risk exists, wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

**PREPARATION AND USE OF PRODUCT:** Avoid contact with eyes and skin. Do not inhale spray mist. Wash hands after use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form / Colour / Odour:** Green, viscous liquid.

**Solubility:** Dispersible in water.

Specific Gravity (20 C)	: 1.109	Melting Point (C)	: N App
Rel Vapour Density (air=1)	: N Av	Boiling Point (C)	: N Av
Vapour Pressure (20 C)	: N Av	Decomp. Point (C)	: N Av
Flash Point (C)	: N App	Sublimation Point	: N App
Flammability Limits (%)	: N App	pH	: N Av
Autoignition Temp (C)	: N App	Viscosity	: N Av
% Volatile by volume	: N Av	Evaporation Rate	: N Av
Solubility in water (g/L)	: N Av	(n-Butyl acetate=1)	
LogPow (Procymidone)	: 3.14		

(Typical values only - consult specification sheet)  
N Av = Not available                      N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Stability:** Product is stable for at least 2 years under ambient storage conditions.

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## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Ingestion:** No adverse effects expected, however large amounts may cause nausea and vomiting.

**Eye contact:** May be an eye irritant.

**Skin contact:** Repeated or prolonged skin contact may lead to irritation.

**Inhalation:** Inhalation of mists or aerosols can produce respiratory irritation.

### Long Term Effects

Available evidence indicates that repeated or prolonged exposure to procymidone may cause liver and reproductive system disorders. (1)

### Acute toxicity / Chronic toxicity

No LD50 data available for the product. However, for the constituents,

PROCYMIDONE:

Oral LD50 (male rat): 6800 mg/kg. (1)

Dermal LD50 (rat): >2500 mg/kg. (1)

SKIN: Non irritant (rabbit). (1)

EYES: Non irritant (rabbit). (1)

Studies in animals have shown that high doses produce adverse effects in the liver and testes causing reproductive toxicity in males. The effect on the testes is considered to be hormonal. The no effect level was 300 ppm (15 mg/kg) and 30 ppm (4.5 mg/kg) in the rat and mouse, respectively. (2)

Animal studies in male rats have shown that exposure in utero may result in changes to the genital organs. (3)

ADI (Acceptable Daily Intake) in humans is 0.05 mg/kg/day. (4)

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

PROCYMIDONE: (1)

AQUATIC TOXICITY

Toxic to aquatic organisms.

96hr LC50 (rainbow trout): 7.2 mg/L.

96hr LC50 (bluegill sunfish): 10.3 mg/L.

Log Pow is 3.14

Risk of bioaccumulation in an aquatic species is low.

Not toxic to bees.

ENVIRONMENTAL DISTRIBUTION AND PERSISTENCE

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Procymidone is rapidly and completely eliminated in the faeces and urine in animals. It may persist in the soil for up to 3 months depending on the humus content.

## 13. DISPOSAL CONSIDERATIONS

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

## 14. TRANSPORT INFORMATION

### Road and Rail Transport

Not Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG) for transport by Road and Rail.

### Marine Transport

Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

### Air Transport

Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

## 15. REGULATORY INFORMATION

This material is hazardous according to health criteria of Worksafe Australia.

### **Hazard Category**

T Toxic

### **R-phrases(s)**

Repr. Cat 2; R61 May cause harm to the unborn child.

### **S-phrases(s)**

S2 Keep out of the reach of children.  
S13 Keep away from food, drink and animal foodstuffs.  
S36 Wear suitable protective clothing.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible).

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Poisons Schedule (Aust)/Toxic Substance (NZ): None allocated

## 16. OTHER INFORMATION

### Literary reference

- (1) In 'The Pesticide Manual'. 11th Edition. Ed CDS Tomlin. British Crop Protection Society, 1997.
  - (2) JMPR (1989) Joint Meeting on Pesticide Residues. Monographs of toxicological evaluations 591. Procymidone. INCHEM, Canadian Centre for Occupational Health and Safety Disc 99-2.
  - (3) Ostby, J. et al (1999). 'The fungicide Procymidone alters sexual differentiation in the male rat by acting as an androgen-receptor antagonist in vivo and in vitro' - Toxicological Industrial Health, 15 (1-2): 80-93.
  - (4) ADI List, Commonwealth Department of Health and Family Service; 01/2000.
- (R) Helmet a Registered Trade Mark.

This Material Safety Data Sheet has been prepared by SHE Pacific Pty Ltd on behalf of its clients.

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Reason(s) For Issue: FIRST ISSUE PRIMARY MSDS

Safety Data Sheets are updated frequently. Please ensure that you have a current copy.

This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the workplace. Since Orica Limited and its subsidiaries cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact this company.

Our responsibility for product as sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available upon request.