

CAPTAN 800 WG

Material Safety Data Sheet



1. IDENTIFICATION OF MATERIAL & SUPPLIER:

Name of Product: Captan 800 WG

Company Name: Melpat International Pty Ltd
4 / 22 Parry Avenue
Bateman
WA 6150

Contact Telephone: (08) 9312 3200
Contact Facsimile: (08) 9312 3233

Email Address: melpat@melpat.com.au
Website Address: www.melpat.com.au

2. COMPOSITION & INGREDIENTS:

Chemical Name:	Captan
Chemical Family:	Phthalimide Fungicide
Composition:	80%
Empirical Formula:	C ₉ H ₈ Cl ₃ NO ₂ S
Physical Description & Colour:	Off white / Granulated Solid
Odour:	Mildly pungent odour

3. HAZARDOUS IDENTIFICATION:

Classified as hazardous:

- irritating
- toxic



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6150

Not subject to the ADG Code when transported in Australia by Road or Rail in 500kg (or less) packaging. If transported by Sea or Air, this provision does not apply. Please refer to details in section 14.

Risk Phrases:

R23 – toxic by inhalation
 R40 – limited evidence of a carcinogenic effect
 R41 – risk of serious damage to eyes
 R43 – may cause sensitisation by skin contact
 R50 – very toxic to aquatic organisms

Safety Phrases:

S22	S45
S26	S61
S28	S1/2
S29	S36/37/39
S38	

Do not breathe dust. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. After contact with skin, wash immediately with plenty of soap and water. Do not empty into drains. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately. Avoid release to the environment. Refer to Directions for Use Leaflet. Keep locked up and out of reach of children. Wear suitable protective clothing, gloves and eye/face protection.

SUSMP Classification: S6

ADG Classification: Class 9 – Miscellaneous dangerous goods

UN Number: 3077

4. POTENTIAL HEALTH EFFECTS & FIRST AID MEASURES:

INHALATION:

Effects:

Short Term: Available data shows that product is toxic, but does not state symptoms. Product may be mildly irritating, but unlikely to cause anything more than mild transient discomfort.

Long Term: No data for health effects associated with the product.

First Aid:

Remove affected person to fresh air until recovered. If symptoms persist, seek medical advice immediately.



SKIN CONTACT:**Effects:**

Short Term: Potential sensitiser by skin contact. May manifest itself as skin rash or inflammation – in some individuals the reaction can be severe. However the product is unlikely to cause any discomfort in normal use.

Long Term: No data for health effects associated with the product.

First Aid:

Wash affected areas thoroughly with soap and water. Remove contaminated clothing and lauder before re-use. If irritation persists, seek medical advice.

INGESTION:**Effects:**

Significant oral exposure is considered to be unlikely. This product is unlikely to cause any irritation problems in the short of long term.

First Aid:

If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.

If vomiting occurs, give more water to drink to assist dilution. Rinse mouth and then drink plenty of water.

EYE CONTACT:**Effects:**

Severe eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms such as swelling of eyelids and blurred vision may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment is likely to cause permanent damage.

First Aid:

If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately. **Advice to Doctor:** treat symptomatically.

5. FIRE FIGHTING MEASURES:**FIRE & EXPLOSION HAZARDS:**

- No risk of an explosion from this product, under normal circumstances
- If scattered, may form flammable or explosive dust clouds in the air.
- Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

EXTINGUISHING MEDIA:

- Water fog or fine spray is the preferred medium for large fires.



- Contain spills / minimise spillage entering rains or water ways.

FIRE FIGHTING:

If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breather apparatus.

FLASH POINT: no data

6. ACCIDENTAL RELEASE MEASURES:

SPILLS & DISPOSAL:

Recover the product by sweeping up or vacuuming without raising dust. Collect spilled material and waste in sealable open-top type containers for disposal. On-site disposal of concentrate is not acceptable.

PERSONAL PROTECTION:

Wear a face mask that protects against toxic dusts, eye protection, chemically resistant gloves and overalls while dealing with spilled material.

7. HANDLING & STORAGE:

HANDLING:

Keep exposure to a minimum and minimise the quantities kept in work areas. Avoid contact or contamination of product with incompatible materials listed in Section 10

STORAGE

This product is a Scheduled Poison.

Observe all relevant regulation regarding sale, transport and storage of this schedule of poison.

Store in a cool place.

Ensure containers are kept tightly closed. Keep dry and away from water.

Ensure product is in a well-ventilated area.

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

General advice regarding safety clothing and equipment as provided by Australian Standards:

Respiratory equipment:	AS/NZS 1715
Protective Gloves:	AS 2161
Occupational Protective Clothing:	AS/NZS 4501 set 2008
Industrial Eye Protection:	AS 1336 & AS/NZS 1337



Occupational Protective Footwear: AS/NZS 2210

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Captan	5	not set

ADI for Captan: 0.1mg/kg/day
Corresponding NOEL: 10mg/kg/day

No special equipment is usually required when occasionally handling small quantities. The following are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems:

VENTILATION:	Well-ventilated area. If natural ventilation is inadequate, use of a fan is suggested.
EYE PROTECTION:	Protective glasses or goggles must be worn when this product is being used. Failure to protect your eyes, may lead to severe harm. Emergency eye wash facilities must also be available in an area close to where the product is being used.
SKIN PROTECTION:	If you believe you may have a sensitisation to this product, you should prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure all skin areas are covered.
PROTECTIVE MATERIAL TYPES:	Must be impermeable
RESPIRATOR:	If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable dust mask. Use a P1 mask, designed for use against mechanically generated particles. Otherwise not normally necessary.

9. PHYSICAL & CHEMICAL PROPERTIES:

Physical description & colour:	Off White / Granulated Solid
Odour:	Mildly pungent odour
Boiling Point:	No data
Freezing / Melting Point:	174-179°C
Volatiles:	No data
Vapour Pressure:	<1.3mPa at 250C
Vapour Density:	No data
Water Solubility:	Insoluble
pH:	No data



10. STABILITY & REACTIVITY:

REACTIVITY:	This product is unlikely to react or decompose under normal storage conditions
CONDITIONS TO AVOID:	Must be kept in a cool (below 30°C) and well-ventilated area. Packaging must be kept dry.
INCOMPATIBILITIES:	Protect from (sun)light, sources of heat, open flame and moisture.
HAZARDOUS REACTIONS:	Keep away from strong oxidising agents.
POLYMERISATION:	Will not undergo polymerisation reactions.

11. TOXICOLOGICAL INFORMATION:

INHALATION:

Breathing in high concentrations of dusts or aerosols of this material may cause headache, nausea, dizziness and weakness.

RESPIRATORY IRRITATION:

The product is a respiratory irritant.

ACUTE TOXICITY – INHALATION:

LC50 (rat) 0.668 mg/l

INGESTION:

Possible symptoms of exposure include nausea, vomiting and gastrointestinal discomfort and diarrhoea.

ACUTE TOXICITY – ORAL:

LD50 (rat) – 9,000mg/kg for Captan

SKIN:

Prolonged contact with the concentrate may result in absorption of Captan in harmful amounts. Repeated or prolonged contact with the concentrate may lead to irritant contact dermatitis.

ACUTE TOXICITY – DERMAL:

LD50 (rabbit) - >4,500 mg/kg for Captan

EYE:

Severe eye irritant.



12. ECOLOGICAL INFORMATION:

DEGRADABILITY:	Half life in soil is typically 1 day.
KNOWN HARMFUL EFFECTS:	Active ingredient: Captan, is highly toxic to fish and aquatic organisms.
ENVIRONMENT PRECAUTIONS:	Marine Pollutant. Do not contaminate dams, waterways or sewers with this product or containers which have held this product.
ACUTE TOXICITY – FISH:	LC50 (96hr) for bluegill sunfish is 0.072 mg/l LC50 (96hr) for brook trout is 0.034 mg/l
ACUTE TOXICITY – DAPHNIA:	LC50 (48hr) for daphnia is 7 – 10 mg/l for Captan.
ACUTE TOXICITY – OTHER ORGANISMS:	Bees – not toxic to bees. LD50 is 91 µg/bee Not toxic to birds LD50 for mallard ducks and pheasants is >5000 mg/kg LD50 for bobwhite quail is 2000 – 4000 mg/kg

13. DISPOSAL CONSIDERATIONS:**PRODUCT DISPOSAL:**

On site disposal of the concentrated product is not acceptable.

Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals.

CONTAINER DISPOSAL:

Do not use this container for any other purpose. Do not dispose of undiluted chemicals on site. Puncture or shred and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm 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:

Not subject to the ADG Code when transported by Road or Rail in Australia, in packages of 500kg (l) or less; or IBCs, but classed as Dangerous by IATA and IMDG when carried by Air or Sea transport

ADG Code: 3077, Environmentally Hazardous Substance, Solid, N.O.S.



Hazchem Code: 2Z
Special Provisions: 179, 274, AU01
Limited Quantities: ADG 7 specifies a Limited Quantity value of 5kg for this class of product.
Dangerous Goods: Class 9: Miscellaneous Dangerous Goods
Packaging Group: III

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