



SAFETY DATA SHEET MERPAN 80 WDG Fungicide

Section 1: Identification of the Substance and Supplier

Product name : Merpan 80 WDG
Chemical name of active Ingredient(s): 1,2,3,6-Tetrahydro-N (trichloromethylthio)phthalimide.
Chemical Formula: Captan C₉H₈Cl₃NO₂S.
EU Cat. No.: Captan 613-044-00-6
Code No.: R-6810.GDPD
Supplier: ADAMA New Zealand Limited
Level 1/19 Elms Street, Wakatu Estate, Stoke, Nelson, New Zealand
P.O.Box 1799, Nelson New Zealand.
Telephone +64 3 543 8275 Fax: +64 3 543 8274
Emergency Telephone: 0800 POISON (0800 764 766) 24 Hour Service

Section 2: Hazards Identification

HSNO Classifications: 6.3B, 6.5B, 6.7B, 8.3A, 9.1A
Most Important Hazards: **TOXICITY**
Warning –
May cause mild skin irritation.
May cause sensitization from prolonged skin contact.
Harmful – suspected of causing cancer. Limited evidence of a carcinogenic effect in animal studies.
This product is corrosive and may cause eye damage.
Avoid contact with skin and eyes. Avoid inhalation of spray mist.
ECOTOXICITY
Very toxic to aquatic organisms. Avoid contamination of any water supply with product or empty container.

Section 3. Composition/Information on Ingredients

Substance/preparation	Preparation				
Information on hazardous ingredients *					
Common name	CAS No.	%	EC Number	Symbol	R-Phrases
Captan	133-06-2	80.00	205-087-0	T,N	R23-40-41-43-50
Condonsod naphthalene sulfonate		Approx 8%		XI	R36/38
Dialkytnaphthalene sulphonate	1322-93-6	Approx 3%		Xn	R20-/22-36/37

- **Occupational Exposure Limit(s), if available, are listed in section 8**

Section 4: First-Aid Measures

Effects and symptoms:

Skin contact: Repeated exposure may cause contact dermatitis.

First-aid measures:

Inhalation: Remove victim to fresh air. Keep victim warm and at rest.
If breathing is difficult give oxygen.
If not breathing, apply artificial respiration. Get medical attention.

Ingestion: Induce vomiting. Never give anything by mouth to an unconscious person. Wash out mouth with water. Consult a doctor.

Skin contact: Remove contaminated clothing. Wash away remainder with water and soap.
Consult a doctor in the event of any complaints.

Eye contact: Wash out with plenty of water for at least 15 minutes. If pain persists, consult an eye specialist

Notes to a physician: There is no specific antidote. Treat symptomatically and give supportive therapy.
If ingested perform gastric lavage and administer activated charcoal.



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Section 5: Fire-Fighting Measures

Extinguishing media

Suitable:

If involved in fire.

In case of a small fire: foam or dry chemical, carbon dioxide.

In case of a large fire: Water spray, fog or regular foam.

Special Firefighting Procedures:

Fight fires from a protected location. Dike fire control water for later disposal.

Hazardous thermal

CSCl₂, HCl, SO_x, CO, CO₂

(de)composition products:

Protection of fire-fighters:

Wear suitable protective clothing. Self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions:

Wear suitable protective clothing.

Environmental precautions:

Dispose of this material and its container at hazardous or special waste collection point. If the product has contaminated surface water, inform the appropriate authorities.

Methods for cleaning up:

Collect spilled material with shovel, place into a clean container and cover container loosely.

Section 7: Handling and Storage

Handling:

Avoid contact with skin and eyes.

Storage:

Keep locked up. Keep container tightly closed. Keep only in the original container in a cool, well-ventilated place. Keep container dry.

Packaging materials:

Multi-walled paper bag with plastic liner.

Suitable:

Section 8: Exposure Controls/Personal Protection

Engineering measures:

Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

Hygiene measures:

Wash hands thoroughly after handling. Wash clothing separately before re-use.

Occupational Exposure

Limits

Common name:

Captan

TLV (USA):

TWA: 5mg/m³, A3 (1996)

Personal protective equipment:

Respiratory system:

During spraying wear suitable respiratory equipment

Skin and body:

Wear suitable protective clothing and chemical resistant boots.

Hands:

Wear suitable gloves.

Eyes:

Safety goggles or face shield.

Section 9: Physical and Chemical Properties

Physical state:

Granules

Colour:

Light Brown

Odour:

Faint odour (characteristic)

Molecular Weight:

Captan 300.61

Boiling point:

Captan decomposes

Melting Point:

Captan: 158-164°C

Bulk Density:

650-750 g/L

Vapour pressure:

Captan: 2.4 x 10⁻⁴ Pa at 40 °C (Pure)

Solubility in water:

Captan: Insoluble in water

Octanol/water partition coefficient

Captan: K_{ow} = 610

Flammability:

Not flammable

Explosion properties:

Not explosive



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Section 10: Stability and Reactivity

Stability:	Stable under normal dry conditions
Conditions to avoid:	Protect from (sun) light, open flame sources of heat and humidity
Materials to avoid:	Alkali materials, such as lime and Bordeaux mixture will reduce fungicidal activity
Hazardous reactions :	Hazardous polymerization will not occur
Hazardous decomposition products:	CSCl ₂ , HCl, SO _x , NO _x , CO ₂ , CO.

Section 11. Toxicological Information

Preparation:	HSNO: Class 9.1A
Acute toxicity - Oral:	LD ₅₀ > 2,000 mg/kg (rat)
Acute toxicity - Dermal:	LD ₅₀ > 5,000 mg/kg (rat)
Acute toxicity – Inhalation:	Not applicable
Skin irritation:	Mildly irritating (rabbit).
Eye irritation:	Moderately irritating (rabbit).
Sensitization :	MERPAN TECHNICAL: Guinea pig maximization test: skinsensitizer
Common name:	Captan
Carcinogenicity:	A two year feeding study of Captan indicated duodenal tumors in mice after repeated administration of high dose levels. The NOEL (No Observed Effect Level) was 400ppm. No evidence of carcinogenicity was observed in long-term studies with rats. Information on the mechanism of these tumors establishes a threshold for the duodenal tumors, and indicates that this tumor type is not relevant for human risk assessment at likely exposure levels.
Mutagenicity:	Not mutagenic (in-vivo tests)
Reproduction toxicity:	Not teratogenic in animals experiments.

Section 12: Ecological Information

Common name:	Captan
Mobility:	Captan does not leach to ground water.
Persistence/degradability:	The product is readily biodegradable.
Bioaccumulative potential:	Captan does not bioaccumulate in aquatic organisms.
Ecotoxicity:	Very toxic to aquatic organisms (fish and algae), in laboratory experiments. Low toxicity in actual use, due to its hydrolytic instability. LD ₅₀ > 2000 mg/kg birds

Section 13: Disposal Considerations

Methods of disposal:	Container Disposal - Triple rinse empty container and add rinsate to spray tank. Burn in an appropriate incinerator, if circumstances such as wind direction permit. Otherwise crush or puncture and bury in a suitable landfill, or if appropriate, recycle. Avoid contamination of any water supply with product or empty container.
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Section 14: Transport Information

UN Number	3077
Proper shipping name	Environmentally hazardous substance, Solid, N.O.S, (captan)
DG Class	9
Packing Group	III
Hazchem Code	2X
Marine Pollutant	Yes
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National transport regulations: Do not carry this product on a passenger service vehicle.
Segregation: Check the land transport Rule Dangerous Goods 1999, Rule 45001 for additional information. Sea transport may require additional segregation. Refer: NZS5433; Sea Segregation, or the International Maritime Dangerous Goods Code for details.

Section 15: Regulatory Information

NZFSA Approval: Registered pursuant to the ACVM Act 1997. No P7276.
See www.nzfsa.govt.nz/acvm for registration conditions.
Approved pursuant to the HSNO Act 1996, Approval No. HSR000503
See www.ermanz.govt.nz for registration conditions

HSNO Classifications: **HAZARD CLASSIFICATIONS**
Classifications 6.3B, 6.5B, 6.7B, 8.3A, 9.1A



CORROSIVE (EYE)



ECOTOXIC

APPROVED HANDLER - this product must be under the care of an approved handler when it is applied in a wide dispersive manner or used by a commercial contractor.

RECORD KEEPING

Records of use must be kept under certain circumstances – see The New Zealand Standards for Management of Agrichemicals (NZS8409) for details.
HSNO Class 8.3A requires a priority identifier of “**CORROSIVE**”.

Section 16: Other Information

Note: This product is a registered agricultural chemical and must be therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

The information contained in the Safety Data sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for combinations with other materials or in processes other than those specifically described herein.

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HISTORY

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