

Product Name: Merpan Max

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This revision issued: Feb 2023

# **SAFETY DATA SHEET**

# Section 1. Identification of the material and the supplier

Product: Merpan Max

Chemical name of active Captan, 1,2,3,6-Tetrahydro-N

(trichloromethylthio)phthalimide.

Product Use: Fungicide

Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road Tahunanui, 7011, Nelson

Telephone: +64 3 543 8275 Email: nzorders@adama.com

Emergency Telephone: 0800 764 766 (National Poison Centre) 0800 734 607 (24hr Emergency Response)

Date of SDS Preparation: 22 February 2023

# Section 2. Hazards Identification

This substance is hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020* 

**EPA Approval No:** HSR000503

## **Pictograms**









Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement
Serious eye damage Category 1	H318	Causes serious eye damage.
Skin sensitisation Category 1	H317	May cause an allergic skin reaction.
Carcinogenicity Category 2	H351	Suspected of causing cancer.
Hazardous to the aquatic environment acute Category 1	H400	Very toxic to aquatic life.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid unintended release into the environment.
P280	Wear protective clothing as detailed in Section 8.

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Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P310 +	IF IN EYES: Immediately call a POISON CENTER or doctor/physician. Rinse
P338 + P351	cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P308	If exposed or concerned: Get medical advice/attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take of contaminated clothing and wash it before reuse.
P391	Collect spillage.

Storage Code	Storage Statement
P405	Store locked up.
	Store locked up in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs.  As an environmentally hazardous substance with aquatic ecotoxicity classifications, storage of Merpan Max must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed as a means of meeting secondary containment requirements.

<b>Disposal Code</b>	Disposal Statement
P501	Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill. Do not allow product to enter waterways. Do not burn product or container.

# Section 3. Composition / Information on Ingredients

Ingredients	Wt. %	CAS NUMBER.
Captan	90	133-06-2
Other ingredients not contributing to the overall	To balance	NA
classification of the substance or non hazardous		

# Routes of Exposure:

If in Eyes Immediately call a POISON CENTER or doctor/physician. Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If on Skin Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical

advice/attention.

If Swallowed Wash out mouth with plenty of water. Induce vomiting. Never give

anything by mouth to an unconscious person.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

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# Most important symptoms and effects, both acute and delayed

Symptoms:

**Ingestion**: Not applicable.

**Skin:** May cause an allergic skin reaction.

**Inhalation:** Not applicable.

**Eyes:** Causes serious eye damage. **Chronic:** Suspected of causing cancer.

**Notes to physician:** There is no specific antidote. If poisoning is suspected apply

symptomatic therapy. If ingested perform gastric lavage and administer

activated charcoal.

# Section 5. Fire Fighting Measures

Hazard Type	Not Flammable.
Hazardous thermal (de)composition products	During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical.
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus.
HAZCHEM CODE	2X

#### **Section 6.** Accidental Release Measures

Wear full protective clothing as detailed in Section 8. Evacuate area from unnecessary personnel.

## **Environmental precautions**

Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

# Methods and material for containment and cleaning up

Collect spilled material with shovel, place into a clean container and cover container loosely. Dispose of container in a suitable landfill or take to an Agrecovery collection site.

# Section 7. Handling and Storage

# **Precautions for Handling:**

- Do not handle until all safety precautions have been read and understood.
- Avoid breathing dust.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid unintended release into the environment.
- Wear protective clothing as detailed in Section 8.

# **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Keep away from children.
- Keep locked up.
- Keep container tightly closed.
- Keep only in the original container in a cool, well-ventilated place. Keep container dry.

• Multi walled paper bag with plastic liner is the suitable packaging material.

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Captan

# **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

TWA STEL ppm mg/m3 ppm mg/m3

Substance

[133-06-2]

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Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

# **Engineering Controls**

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

## **Personal Protection Equipment**









Eyes	Safety goggles or face shield. Avoid wearing contact lenses.	
Hands and	Wear chemical resistant gloves, wear suitable protective clothing and	
Skin	chemical resistant boots.	
Respiratory	During spraying wear suitable respiratory equipment.	

# **Section 9** Physical and Chemical Properties

Appearance	Off-white to light yellow granules
Odour	Faint Odour(characteristic)
Odour Threshold	Not applicable
pH	6.0-9.0
Boiling Point	Captan decomposes
Melting Point	Captan: 158-164°C
Flash Point	Not applicable
Flammability	Not Flammable
<b>Upper and Lower Exposure Limits</b>	Not Explosive
Vapour Pressure	Captan: 2.4 x 10-4 Pa at 40 oC (Pure)
Density	Not applicable
Bulk Density	650-750 g/L
Relative Density	Not applicable
Solubilities in water	Captan: Insoluble in water
Auto-ignition Temperature	Not applicable
Octanol/water partition	Captan: K <sub>ow</sub> = 610
coefficient	
Molecular Weight	Captan 300.61

# Section 10. Stability and Reactivity

Stability of Substance	Relatively stable in neutral, weakly acidic and weakly	
	alkaline media.	
Conditions to Avoid	Protect from (sun) light, open flame sources of heat	
	and humidity.	
Incompatible Materials	Compatible with most fungicides formulations except	
	very strong acid/alkaline formulations	
Hazardous Decomposition	None	
Products		

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Section 11	Toyicological	Information
Section 11	Toxicological	Iniormation

#### **Acute Effects:**

Swallowed	Not applicable. LD50 > 2,000 mg/kg (rat)	
Dermal	Not applicable. LD50 > 5,000 mg/kg (rat)	
Inhalation	Not applicable.	
Eye	Causes severe eye damage.	
Skin	May cause an allergic skin reaction.	

#### **Chronic Effects:**

Carcinogenicity	Suspected of causing cancer.	
Reproductive	Not applicable.	
Toxicity		
Germ Cell	Not applicable.	
Mutagenicity		
Aspiration	Not applicable.	
STOT/SE	Not applicable.	
STOT/RE	Not applicable.	

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 animal experiments.

# Section 12. Ecotoxicological Information

**HSNO Classes**: Hazardous to the aquatic environment acute Category 1.

Persistence and degradability	The product is readily biodegradable.
Bioaccumulation	Captan does not bioaccumulate in aquatic organisms.
Mobility in Soil	Captan does not leach to ground water.
Other adverse effects	No data available

Common name: Captan

**Ecotoxicity:** Very toxic to aquatic organisms (fish and algae), in

laboratory experiments.

Low toxicity in actual use, due to its hydrolytic instability.

LD50 > 2000 mg/kg birds.

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# Section 13. Disposal Considerations

**Disposal Method:** 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.



**Precautions:** Do not allow product to enter waterways.

**Disposal methods to avoid:** Do not allow product to enter waterways.

# Section 14 Transport Information

# This product is classified as a Dangerous Good for transport in NZ; NZS 5433



## **Road and Rail Transport**

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Captan)

# Do not carry this product on a passenger service vehicle.

## **Air Transport**

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Captan)

## **Marine Transport**

UN No: 3077 Class-primary 9 Packing Group III

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (Captan)

Marine Pollutant: Yes

## **Special Provisions:**

If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

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# Section 15 Regulatory Information

# This substance is hazardous according to the *Hazardous Substances (Hazard Classification) Notice 2020*

**HSNO Approval Code**: HSR000503

**HSNO Classification**: Serious eye damage Category 1, Skin sensitisation Category 1, Carcinogenicity Category 2, Hazardous to the aquatic environment acute Category 1.

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity			
Certified Handlers	Not required			
Location Certificate	Not required			
Tracking Trigger Quantities	Not required			
Signage Trigger Quantities	100 kg			
Emergency Response Plan	100 kg			
Secondary Containment	100 kg			
<b>Hazardous Property Controls Notice 2017</b>				
HPC Notice Part 1	Hazardous Property Controls preliminary provisions			
HPC Notice Part 3	Hazardous substances in a place other than a workplace			
HPC Notice Part 4 Subpart A	Substances that are hazardous to the environment: Site and storage controls			
HPC Notice Part 4 Subpart B	Use of substances that are hazardous to the environment			
HPC Notice Part 4 Clause 47	Equipment for environmentally hazardous substances must be appropriate			
HPC Notice Part 4 Clause 48	Record of application of agrichemicals			
HPC Notice Part 4 Clause 52	Agrichemicals that are hazardous to the aquatic environment must not be applied to water			
HPC Notice Part 4 Subpart C	Qualifications required for the application of substances that are hazardous to the environment			
For all further controls:	Refer to EPA website <a href="www.epa.govt.nz">www.epa.govt.nz</a> for controls document – HSR000503			
ACVM Act and Regulations				
ACVM Approval No	P008677			
See <u>www.foodsafety.govt.nz</u>				
for registration conditions.				

# Section 16 Other Information

# **Glossary**

ACVM Agricultural Compounds and Veterinary Medicines Act 1997.

EC50 Median effective concentration.
EEL Environmental Exposure Limit.
EPA Environmental Protection Authority.

HSNO Hazardous Substances and New Organisms Act 1996.

HSW Health and Safety at Work Act 2015.

HSW (HS) Regulations Health and Safety at Work (Hazardous Substances) Regulations

2017.

LC50 Lethal concentration that will kill 50% of the test organisms

inhaling or ingesting it.

LD50 Lethal dose to kill 50% of test animals/organisms.

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LEL Lower explosive level.
TEL Tolerable Exposure Limit.

TLV Threshold Limit Value-an exposure limit set by responsible

authority.

UEL Upper Explosive Level.
WES Workplace Exposure Limit.

#### References:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2012
- 5. HSW (Hazardous Substances) Regulations 2017

#### Disclaimer:

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