

SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Merpan 50 SC

Revision date 15-Mar-2023 Ve

Version 2 Supersedes Date:

18-Jul-2019

Product Code(s) FNG56904-27 MCW 2067 7797060

1. Identification

Print Date 15-Mar-2023

Product identifier

Merpan 50 SC

Other means of identification

Synonyms Captan 500 SC

Formulation type SC
Registration Number(s) L5511
Pure substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Recommended use Uses advised againstFungicide; Professional use
No information available

Detailed information about the manufacturer, supplier, and/or importer

Supplier

ADAMA SOUTH AFRICA (PTY) LTD Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive Bellville 7530

Emergency telephone number

Emergency Telephone +27 82 446 8946 (Griffon Poison Centre)

+27 86 155 5777 (Tygerberg Poison Information Centre) +27 86 100 6366 and +27 83 253 6618 (SPILL TECH)

E-mail address SDS@ADAMA.COM

2. Hazard(s) identification

Classification of the substance or mixture

Skin sensitization	Category 1 - (H317)
Carcinogenicity	Category 2 - (H351)
Acute aquatic toxicity	Category 1 - (H400)

Label elements

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Signal word

Warning

Hazard pictograms



Hazard statements H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H400 - Very toxic to aquatic life

Precautionary statements P101 - If medical advice is needed, have product container or label at hand

P102 - Keep out of reach of children

P203 - Obtain, read and follow all safety instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P318 - If exposed or concerned get medical advice.

P333+317 - If skin irritation or rash occurs get medical help

P321 - Specific treatment (see supplemental first aid instructions on this label)

P362+364 - Take off contaminated clothing and wash it before reuse

P391 - Collect spillage P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information This product is classified as hazardous according to the criteria in South Africa - GHS

classification and labelling of chemicals – SANS10234 and the Regulations for Hazardous

Chemical Agents - 2021.

Other hazards

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

3. Composition/information on ingredients

Substance

Not applicable

Mixture

Synonyms

Captan 500 SC

Chemical name	CAS No	Weight-%	EC No	INTERNATIONAL GHS CLASSIFICATION	M-Factor
Captan	133-06-2	38 - 42	205-087-0	Acute Tox. 3 (H331) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Carc. 2 (H351) Aquatic Acute 1 (H400)	M=10

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Full text of H- and EUH-phrases: see section 16

Additional information

Note: The other ingredients do not cause or contribute towards the correct GHS classification of Merpan 50 SC and are therefore, in terms of the South African Regulations for Hazardous Chemical Agents - 2021, Regulation 14(b), not listed in the table above.

4. First-aid measures

Description of necessary first aid measures

General advice In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). First aider: Pay attention to self-protection.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin contactWash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Consult a physician if necessary.

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

For emergency responders

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms/effects, acute and delayed

Symptoms None known.

Indication of immediate medical attention and special treatment needed, if necessary

Note to physiciansTreat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media

surrounding environment.

Unsuitable extinguishing mediaDo not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical

Specific hazards arising from the

Product is or contains a sensitizer. May cause sensitization by skin contact.

chemical

Specific/special fire-fighting measures

Specific/special fire-fighting

measures

No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

Other information Refer to protective measures listed in Sections 7 and 8.

7. Handling and storage

Preventive measures for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off

contaminated clothing and wash before reuse.

Precautions for safe handling

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Keep out of the reach of children.

8. Exposure controls/personal protection

Control parameters

Exposure guidelines

Chemical name	ACGIH TLV
Captan	TWA: 5 mg/m³ inhalable particulate matter
133-06-2	

Appropriate engineering controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection Wear suitable gloves.

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained.

9. Physical and chemical properties

Information on basic physical and chemical properties

Property	<u>Values</u>	<u>Method</u>	Remarks
Appearance			
Physical state	: Liquid		
Color	: white opaque		
Odor	: characteristic Odor		
Odor threshold	: No data available		
рН	: 6-7	CIPAC MT 75.3	solution (1%)
Melting point / freezing point °C	:		
Boiling point / boiling range °C	:		No data available
Flash point °C	: > 120	EEC A.9	aqueous solution
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or	: No data available		
explosive limits			
Vapor pressure kPa	:		Not applicable
Vapor density	: No data available		
Relative density	: 1.2 - 1.3	EEC A. 3	
Solubility(ies) mg/l	:		Not applicable
Partition coefficient Log Pow	:		See Section 12 for additional
			Ecological Information
Autoignition temperature °C	: > 603	EEC A.15	-
Decomposition temperature °C	: No data available		
-			

Kinematic viscosity mm2/s 40 °C : 145 OECD 114

Explosive properties : Not an explosive Oxidizing properties : Not oxidizing Surface tension : No data available Particle Size : Not applicable

Other information

Bulk density g/ml : Not applicable

10. Stability and reactivity

Reactivity

Reactivity No information available.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

Conditions to avoid

Conditions to avoidNone known based on information supplied.

Incompatible materials

Incompatible materials None known based on information supplied.

Values

Hazardous decomposition products

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors.

11. Toxicological information

Information on toxicological effects

Acute toxicity

	<u>vaiues</u>	<u>Species</u>	<u> Methou</u> <u>Remarks</u>	<u> </u>
Oral LD50 mg/kg	: > 5000	Rat	OPPTS 870.1100	
Dermal LD50 mg/kg	: > 4000	Rat	OECD 402	
Inhalation LC50 LC50	: > 2.03	Rat	OPPTS 870.1300 Maximum	1
			attainable)
			concentra	ation

Species

Skin corrosion/irritation: Non-irritating to the skinRabbitOPPTS 870.2500Serious eye damage/eye irritation: Not irritating to eyesRabbitOPPTS 870.2400Sensitization: Skin sensitizerGuinea pigOECD 406

Chronic toxicity

Germ cell mutagenicity

Chemical name

Captan : Not classified

Carcinogenicity

Chemical name

Captan : H351 - Suspected of causing cancer

Reproductive toxicity .

Chemical name

Captan : Not toxic for the reproductive system

STOT - Single Exposure

Chemical name

Captan : Not classified

Mothod

Domarko

STOT - Repeated Exposure

Chemical name

Captan : Not classified

Aspiration hazard Chemical name

Captan : Not classified

12. Ecological information

Ecotoxicity

Aquatic toxicity

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish 96-hour LC50 mg/l : No data available
Crustacea 48-hour EC50 mg/l : No data available
Algae 72-hour EC50 mg/l : No data available
Other plants EC50 mg/l : No data available

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical name

Captan : >2000 Mallard duck

Bees Oral LD50 µg/bee

Chemical name

Captan : >100

Abiotic Degradation Water DT50 days

Chemical name

Captan : <1 251 °C

Soil DT50 days Chemical name

Captan : 0.5 - 5.7 aerobic 251 °C

Biodegradation Chemical name

Captan : Not readily biodegradable OECD 301 B

Log Pow <u>Values</u> <u>Method</u> <u>Remarks</u>

Chemical name

Captan : 2.57 pH 7; 25 ° C

Bioconcentration factor (BCF)

Chemical name

Captan : 113 - 250

Adsorption/Desorption Values Method Remarks

Chemical name

Captan : 29 - 198 KOC

13. Disposal considerations

Disposal methods

Waste from residues/unused

products

Dispose of waste in accordance with environmental legislation. Dispose of in accordance

with local regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

14. Transport information

ADR

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan)

14.3 Transport hazard class(es) 9 Labels 9 14.4 Packing group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan), 9,

III, (-) Yes

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions 274, 335, 601, 375

Classification code M6 Tunnel restriction code (-)

RID

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan)

14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing group III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan), 9,

III Yes

14.5 Environmental hazard

14.6 Special Precautions for Users

Special Provisions 274, 335, 375, 601

Classification code M6

IMDG

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan)

14.3 Hazard Class 9 **14.4 Packing group** III

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan), 9,

III, Marine pollutant

14.5 Marine pollutant P
Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions 274, 335, 969 EmS-No F-A, S-F IMDG Stowage and segregation Category A

14.7. Transport in bulk according to No information available

Annex II of MARPOL and the IBC

Code

IATA

14.1 UN number UN3082

14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan)

14.3 Transport hazard class(es) 9
14.4 Packing group | | | |

Description UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Captan), 9,

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14.5 Environmental hazard Yes

14.6 Special Precautions for Users

Special Provisions A97, A158, A197

ERG Code



* Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Registration Requirements: Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). Pesticide Handling, Storage and Disposal Safety: SANS10206: 2020. Safety Data Sheet and Occupational Exposure Limit Requirements: Regulations for Hazardous Chemical Agents – 2021 – SA Occupational Health and Safety Act. SANS11014:2010. Control of and handling of poisonous/hazardous and non-poisonous/non-hazardous substances/chemicals in workplaces: Hazardous Substances Act, 1973 (Act No.15 of 1973). Occupational Health and Safety Act No. 85 of 1993.

16. Other information

Full text of H-Statements referred to under section 3

H228 - Flammable solid

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H351 - Suspected of causing cancer H400 - Very toxic to aquatic life

Date of preparation of the SDS No data available

Revision date 15-Mar-2023

Revision NoteChanges made to the last version are labeled with this sign ***.

Key or legend to abbreviations and acronyms used in the safety data sheet

IMDG International Maritime Dangerous Goods (IMDG)
IATA International Air Transport Association (IATA)

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

STEL (Short Term Exposure Limit) **TWA** TWA (time-weighted average) **STEL**

Ceiling Maximum limit value Skin designation

АЗ A3 - Animal Carcinogen

Abbreviations and acronyms

European Agreement concerning the International Carriage of Dangerous Goods by Road

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

Chemical Abstracts Service number CAS Number -EC Number -**EINECS and ELINCS Number**

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

International Air Transport Association IATA -

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG -International Maritime Dangerous Goods LC50 -Lethal Concentration to 50 % of a test population

LD50 -Lethal Dose to 50% of a test population (Median Lethal Dose) OECD -Organization for Economic Co-operation and Development

PBT -Persistent, Bioaccumulative and Toxic substance

RID -Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT -Specific Target Organ Toxicity

vPvB -Very Persistent and Very Bioaccumulative

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Classification of the mixture

Classification procedure H317 - May cause an allergic skin reaction Classification based on test data

H351 - Suspected of causing cancer Classification based on Calculation method H400 - Very toxic to aquatic life Classification based on Calculation method

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet