


MERPAN[®] 50 SC

Reg. no. L5511 Act/Wet 36 of/van 1947
N-AR 0506

**READ THE LABEL BEFORE USE
KEEP OUT OF REACH OF CHILDREN AND ANIMALS**

GROUP	M04	FUNGICIDE
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A suspension concentrate fungicide for the control of diseases in crops as indicated.	'n Suspensiekonsentraat swamdoder vir die beheer van siektes in gewasse soos aangedui.
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 <p>WARNING</p>	<p>Hazard statements May cause an allergic skin reaction. Suspected of causing cancer. Very toxic to aquatic life.</p> <p>Precautionary statements Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.</p>
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ACTIVE INGREDIENT/AKTIEWE BESTANDEEL

Captan..... 500 g/LKaptan

NET VOLUME/NETTO VOLUME

..... L

REGISTRATION HOLDER/REGISTRASIEHOUER

ADAMA South Africa (Pty) Ltd;
Reg. no. 1992/001741/07
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IN CASE OF POISONING, CALL THE FOLLOWING NUMBERS:

Griffon Poison Information Centre:
+27 82 446 8946 or
Tygerberg Poison Information Centre:
+27 861 555 777

EMERGENCY NUMBER:

SPILL TECH: +27 86 100 6366 or +27 83 253 6618

UN no.: 3082

Batch number
Date of Manufacture
Expiry date

Lotnommer
Datum van Vervaardiging
Vervaldatum



GHS information

WARNINGS

- May cause an allergic skin reaction.
- Suspected of causing cancer.
- Very toxic to aquatic life.

Withholding periods (Minimum number of days between last application and harvest.):

Apples, pears and olives.....14 days

- Handle with care.
- May be irritating to the eyes.
- May cause sensitization by skin contact.
- Toxic to wildlife.
- Re-entry – Do not enter treated area until spray deposit has dried, unless wearing protective clothing.

Although this remedy has been extensively tested under a large variety of conditions, the registration holder does not warrant that it will be efficacious under all conditions because the action and effect thereof may be affected by factors such as abnormal, climatic and storage conditions, quality of dilution water, compatibility with other substances not indicated on the label and the occurrence of resistance of the disease against the remedy concerned as well as by the method, time and accuracy of application. The registration holder furthermore does not accept responsibility for damage to crops, vegetation, the environment or harm to humans or animals or for lack of performance of the remedy concerned due to failure of the user to follow the label instructions or to the occurrence of conditions which could not have been foreseen in the registration. Consult the supplier in the event of any uncertainty.

PRECAUTIONS

- If medical advice is needed, have product container or label at hand.
- Keep out of reach of children.
- Obtain, read and follow all safety instructions before use.
- If exposed or concerned get medical advice.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Contaminated work clothing should not be allowed out of the workplace.
- IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see supplemental first aid instructions on this label).
- If skin irritation or rash occurs get medical help.

- Take off contaminated clothing and wash it before reuse.
- Avoid release to the environment.
- Collect spillage.
- Store locked up.
- Dispose of contents/ container to an approved waste disposal plant.

- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not eat, drink or smoke whilst handling or applying, or before washing hands and face and changing clothing.
- Store away from food and feed, and keep out of reach of children and animals.
- In the event of eye contamination, rinse immediately.
- In case of accidental skin contact, wash immediately.
- In the event of spillage on clothes, undress and wash.
- Rinse empty container three times with a volume of water equal to a minimum of 10 % of that of the container. Add the rinsings to the contents of the spray tank before destroying the container.
- Avoid contact with the mist as much as possible.
- Prevent spreading of spray mist to other crops, pastures, rivers, dams and areas which is not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate other crops, pastures, rivers and dams.

RELEVANT SUBSTANCES

Chemical name	w/w %	CAS no.
Captan	30 – 60%	133-06-2
Methenamine	<10%	100-97-0

FIRST AID

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.

Take the container label or product name with you when seeking medical attention.

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.

Skin contact: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.

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

Ingestion: If conscious, rinse mouth thoroughly with water. Drink plenty of water. Never give anything by mouth to an unconscious or convulsing person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. If symptoms persist, call a physician.

TOXICOLOGICAL INFORMATION

Antidotes

No specific antidote. Treat symptomatically.

Symptoms of human poisoning

None known.

RESISTANCE WARNING

For resistance management, **MERPAN® 50 SC** is a group code M04 fungicide. Any fungus population may contain individuals naturally resistant to **MERPAN® 50 SC** and other group code M04 fungicide. The resistant individuals can eventually dominate the fungus population if these fungicides are used repeatedly. These resistant fungi may not be controlled by **MERPAN® 50 SC** or any other group code M04 fungicide. To delay fungicide resistance:

- Avoid exclusive repeated use of fungicide from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes,
- For tank mixing or alternation with products in other fungicide group codes, refer to applicable individual product labels.
- Integrate the control methods (chemical, cultural, biological) into disease control programmes.

For specific information on resistance management contact the registration holder of this product.

MODE OF ACTION

M04: Multi-site contact activity.

GENERAL

When used at high water volumes **MERPAN® 50 SC** may cause leaf or fruit damage in certain varieties of apples and pears. Damage is most likely to occur during slow drying conditions, such as prolonged tree wetness following application.

Ensure even coverage of the fruit with the spray mixture and avoid accumulation of droplets of the concentrate spray on the fruit surface.

Under certain conditions captan can cause fruit damage in some cultivars (varieties) of pome fruit if it penetrates the outer cell layer of the fruit. Factors that could reduce the integrity of the cuticular layer of the fruit could result in excessive penetration of captan and subsequent damage. Such factors include certain co-formulants in products tank-mixed with captan that could increase the penetrability of the fruit surface layer, e.g., lipophilic substances, as well as environmental conditions such as humid or prolonged slow drying conditions.

Only apply in orchards that are not exposed to stress conditions.



USE RESTRICTIONS

- Do not apply **MERPAN® 50 SC** with alkaline products or materials, such as spray lime, lime sulphur and Bordeaux mixture.
- Do not apply **MERPAN® 50 SC** in combination with copper-containing products.
- Do not apply **MERPAN® 50 SC** in combination with sprayable oil formulations.
- Allow at least 14 days between application of **MERPAN® 50 SC** and oil formulations or oil-containing products.
- Do not apply **MERPAN® 50 SC** in combination with sulphur on crops or cultivars sensitive to sulphur.

Pome fruit use restrictions

- Avoid spraying under slow-drying conditions, such as long periods of high humidity.
- Do not use **MERPAN® 50 SC** on experimental or newly released cultivars without first consulting the ADAMA representative. **MERPAN® 50 SC** has not been tested on all cultivars to confirm crop safety.
- The use on Forelle, Rosemarie and Cheeky® or other cultivars derived from Forelle pears is not recommended.
- The addition of wetters, surfactants or penetrants or other adjuvants containing such substances is not recommended.
- Do not apply **MERPAN® 50 SC** in combination with foliar feeds, unless the manufacturer of the foliar feed product has approved the mixture. Foliar feeds should not have wetting, surfactant or penetrant characteristics, as mentioned above.
- Do not apply **MERPAN® 50 SC** in tank mix with sulphur-containing products after flowering.
- Allow at least 14 days between application of **MERPAN® 50 SC** and sulphur-containing products.
- Best agricultural practice requires that **MERPAN® 50 SC** is not applied in tank mix with multiple mixing partners, especially on cultivars sensitive to **MERPAN® 50 SC**, as mentioned above.
 - Do not apply **MERPAN® 50 SC** with more than one EC or EW formulation in a tank mix, and with no more than three mixing partners in total.

DIRECTIONS FOR USE

Use only as indicated.

NOTICE TO THE USER: This agricultural remedy is to be used only in according to the directions of this label. It is an offense under the Act to use this product inconsistent with the directions on the label.

Compatibility

MERPAN® 50 SC is compatible with non-alkaline materials, but the compatibility of **MERPAN® 50 SC** with most commonly used pesticides is unknown.

MERPAN® 50 SC is not compatible with and should not be used combination with alkaline materials, such as spray lime, lime sulphur and Bordeaux mixture. Alkaline materials such as spray lime, lime sulphur and Bordeaux mixture will reduce the fungicidal activity of **MERPAN® 50 SC**.

MERPAN® 50 SC is not compatible with sprayable oil formulations.

Do not use **MERPAN® 50 SC** in mixtures with any other products not indicated on the label before consulting with a representative of ADAMA SA (Pty) Ltd.

When applying **MERPAN® 50 SC** in tank mix, follow the label instructions of the mixing partners as well.

APPLICATION RATES

CROP AND DISEASE	RATE	REMARKS
<p>Apples and pears Scab (<i>Venturia inaequalis</i>)</p>	<p>150–200 ml/100 L water</p>	<p>Commence at green tip stage and repeat at intervals of 7 days, up to one week after 75% petal fall.</p> <p>Hereafter continue with another 3 to 4 sprays, depending on weather conditions, and at intervals of 10 to 14 days. The application intervals can also be modified by means of a recognised prediction model for the disease.</p> <p>Apply as a full cover spray in accordance with the tree-row volume requirement of the orchard or a concentrate application (4X).</p> <p>Apply with correctly calibrated equipment to make sure the correct droplet size is applied. Ensure even coverage of the fruit with the spray mixture and avoid accumulation of droplets of the concentrate spray on the fruit surface.</p> <p>Do not apply MERPAN® 50 SC in tank mix with:</p> <ul style="list-style-type: none"> • Alkaline products or materials, such as spray lime, lime sulphur and Bordeaux mixture; • Copper-containing products; • Sprayable oil formulations; • Wetters, surfactants or penetrants or other adjuvants containing such substances; • Foliar feeds, unless the manufacturer of the foliar feed product has been consulted, and also not foliar feeds with wetting, surfactant or penetrant characteristics, as mentioned above; • Sulphur, on cultivars sensitive to sulphur; • Sulphur-containing products after flowering;



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CROP AND DISEASE	RATE	REMARKS
		<p>Best agricultural practice requires that MERPAN® 50 SC is not applied in tank mix with multiple mixing partners, especially on cultivars sensitive to MERPAN® 50 SC, as mentioned above.</p> <p>Do not apply MERPAN® 50 SC with more than one EC or EW formulation in a tank mix, and with no more than three mixing partners in total.</p> <p>Avoid drift of oil sprays from adjacent crops to an orchard that has been or will shortly be treated with MERPAN® 50 SC.</p> <p>Allow at least 14 days between application of MERPAN® 50 SC and oil and/or sulphur-containing products.</p> <p>When applying MERPAN® 50 SC in tank mix, follow the label instructions of the mixing partners as well.</p> <p>Also refer to the sections 'GENERAL' and 'USE RESTRICTIONS' on this label.</p> <p>NOTE:</p> <p>Avoid spraying under slow-drying conditions, such as long periods of high humidity.</p> <p>Only apply in orchards that are not exposed to stress conditions.</p> <p>MERPAN® 50 SC may cause leaf damage of Delicious and other sensitive apple cultivars.</p> <p>Do not use on Forelle, Rosemarie, Cheeky® and other related pear cultivars.</p> <p>MERPAN® 50 SC has not been tested on all apple and pear cultivars to confirm crop safety.</p>
<p>Olives Leaf spot (<i>Cycloconium oleaginum</i>)</p>	<p>200 ml/100 L water</p>	<p>Apply two high volume applications to the point of runoff. Apply one in spring before the new flush appears and then a second in autumn before the start of winter.</p>



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CROP AND DISEASE	RATE	REMARKS
Tobacco seedbeds Anthracnose (<i>Colletotrichum destructivum</i>) Black root rot (<i>Thielaviopsis basicola</i>) Black shank (<i>Phytophthora nicotianae</i>) Damping-off (<i>Pythium, Fusarium and Rhizoctonia spp</i>)	200 ml/100 L water	Apply 15 L/10 m ² as a soil drench 3 weeks after germination and wash into the soil with 40 L of water. Repeat applications every 10–14 days until transplanting.