



syngenta

Reg. No. L10761 Act No. 36 of 1947

A suspension concentrate systemic fungicide for the preventative control of diseases in crops as indicated.

GROUP 7 FUNGICIDE

Active Ingredients:
ADEPIDYN™ (pydiflumetofen)... 200 g/l

Product names marked ® or ™, the ALLIANCE FRAME, the SYNGENTA Logo and the PURPOSE ICON are Trademarks of a Syngenta Group Company



WARNING

Hazard statements: Suspected of causing cancer. Suspected of damaging fertility. Toxic to aquatic life with long-lasting effects.

Precautionary statements:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. **Response:** If exposed or concerned, get medical advice/attention. Collect spillage. **Storage:** Store locked-up. **Disposal:** Dispose of contents container to an approved waste disposal plant.

EMERGENCY TEL NO.:
+27 82 446 8946 (Griffon)

UN 3082

Registration holder
Syngenta South Africa (Pty) Ltd
Co. Reg. No. 1998/013761/07
Private Bag X 60
HALFWAY HOUSE, 1685
Tel.: +27 11 541 4000

1. WARNINGS:

Hazard statements: Suspected of causing cancer. Suspected of damaging fertility. Toxic to aquatic life with long-lasting effects.

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

APPLES AND PEARS..... 28 days
GRAPES (table and wine)..... 7 days

NOTE: Compliance with these withholding periods will ensure that residues do not exceed local maximum residue limits (MRL), but the import tolerances of other countries might possibly be exceeded. If the crop to be treated is intended for export, consult the relevant importer or exporting body regarding the use of this product, MRL's and recommended withholding periods.

- Read safety directions before opening or using.
- To avoid risk to man and the environment, comply with the INSTRUCTIONS FOR USE.
- May be harmful when inhaled or swallowed.
- Irritating or harmful to eyes and skin.
- Toxic to fish and other aquatic organisms with long-lasting effects. Avoid contact with the aquatic environments.
- Keep out of reach of children, uninformed persons and animals.
- Store in a cool, dry place away from food and feed.
- Do not eat, drink, or smoke while handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Do not spray over or allow drift to contaminate adjacent areas or water.
- **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 soil, 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 and the environment, or harm to people or animal 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, that could not have been foreseen in terms of the registration. Consult the supplier in the event of any uncertainty.

2. PRECAUTIONS:

Precautionary statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. **Response:** If exposed or concerned, get medical advice/attention. Collect spillage. **Storage:** Store locked-up. **Disposal:** Dispose of contents/container to an approved waste disposal plant.

- Keep out of reach of children and uninformed persons.
- Do not transport or store with food.
- Avoid contact with eyes and skin.
- DO NOT inhale spray mist.
- While spraying, avoid contact with the spray as much as you can.
- Avoid spray drift onto other crops, grazing rivers, or dams.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- If clothing becomes contaminated with product or wet as a result of spray, remove clothing immediately, change and wash them. Wash yourself.
- Workers should use protective clothing. When preparing spray and using the prepared spray, wear: Cotton overalls buttoned to the neck and wrists, a washable hat, elbow-length PVC gloves, goggles and disposable mist mask covering mouth and nose.
- After use and before eating, drinking, or smoking wash hands, arms and face thoroughly with soap and water. Wash gloves, goggles and contaminated clothing before re-use.

- Store in the closed, original container, in a cool, well-ventilated area. Avoid temperatures below 0°C and above 35°C.
- Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three (3) times with a volume of water equal to a minimum of 10% of that of the container. Add rinsate to the contents of the spray tank before destroying the container in the prescribed manner.
- Do not use the empty container for any other purpose.

First Aid and Medical Treatment:

- If poisoning occurs contact a doctor or the **Tygerberg Poison Information Centre** at +27 861 555 777 or **Griffon Poison Centre** at +27 82 446 8946.
- In case of intoxication, have the product container and label with you when calling a poison control centre, doctor, or when going for treatment.
- **If ingested (swallowed):** Call a poison control centre or doctor immediately for treatment advice. Do NOT induce vomiting. Do not give anything by mouth to an unconscious person.
- **If on skin:** Immediately remove contaminated clothing. Wash skin immediately with soap and rinse skin with plenty of water for 15 - 20 minutes. Call a poison control centre or doctor for treatment advice. Wash contaminated clothing before re-use.
- **If inhaled:** Move person to fresh air. If person is not breathing, call an ambulance then give artificial respiration, preferably mouth to mouth, if possible. Keep patient warm and at ease. Call a poison control centre or doctor for further treatment advice.
- **If in eyes:** Hold eye open and rinse slowly and gently with plenty of water for 15 - 20 minutes in and under the eyelids. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for immediate treatment advice.

Note to doctor: There is no specific antidote available. Treat symptomatically and do not induce vomiting.

3. RELEVANT SUBSTANCES:

| Chemical name | |
|---|-----------------------|
| pydiflumetofen | |
| Classification | Concentration (% w/w) |
| Carc. 2; H351 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | ≥ 10 - < 20 |
| M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | |

4. RESISTANCE MANAGEMENT:

MIRAVIS is classified as a group code 7 fungicide. Any fungus population may contain individuals naturally resistant to **MIRAVIS** and other group code 7 fungicides. The resistant individuals can eventually dominate the

fungus population if these fungicides are used repeatedly and exclusively in programs. These resistant fungi may not be controlled by **MIRAVIS** or any other group code 7 fungicides. As the product owner cannot foresee the development of resistance, the company assumes no liability for any damage or loss resulting from the lack of activity of **MIRAVIS** against these possible resistant strains.

To delay fungicide resistance:

- Avoid exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes.
- Refer to individual product labels when alternating products or when using tank mixtures.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

For specific information on resistance management, contact the registration holder of this product (Syngenta South Africa) or visit the FRAC website at <http://www.frac.info/frac/index.html>.

5. DIRECTIONS FOR USE: Use only as indicated.

Thorough, uniform coverage is essential for effective disease control.

5.1 General

MIRAVIS is a systemic fungicide for the preventative control of foliar diseases in various crops. It has the action of a new active substance ADEPIDYN™ (ISO common name Pydiflumetofen), from the chemical group of carboxamides. The mode of action of the active substance is respiration inhibition. **MIRAVIS** has a very broad spectrum of disease control across multiple crops. It delivers very good efficacy against leaf spots and powdery mildew.

ADEPIDYN™ (Pydiflumetofen) is a broad-spectrum fungicide belonging to chemical group 7; inhibitors of succinate-dehydrogenase or SDHI (FRAC). This inhibits Complex II of respiration in the mitochondria of phytopathogenic fungi, thus it belongs to the SDHI fungicide group. It does not possess cross-resistance with triazole (DMI) or strobilurine (QoI) chemistry, therefore alternation with these chemicals will assist in resistance management. It has prolonged residual effect, ensuring the protection of the leaves, delaying the senescence and keeping them green for a longer time, managing to express the maximum potential of the crop.

MIRAVIS degrades quickly in the environment, ensuring that there are no negative effects on germination and the establishment of successive crops in rotation.

5.2 Compatibility

If **MIRAVIS** is used in tank mix combinations, mix small quantities of the chemicals with water to test the physical compatibility of the components. The products should be added separately to the bulk water in the spray tank. Add these together while agitating and check for any signs of incompatibility e.g., flocculation, etc. In this instance, full cognisance must be taken of all WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE on that label.

MIRAVIS is compatible with various fungicides and

insecticides with which it can be tank mixed or alternated with, at registered label rates, in a season long disease control program. Follow guidance on compatibility of each crop in the recommendations section (section 6).

5.3 Mixing Instructions

MIRAVIS is a concentrated suspension which must be diluted in water. For proper preparation, observe the following instructions:

- Verify proper functioning and correct calibration of the equipment before starting the application.
- Half-fill the spray tank with clean water.
- Shake the **MIRAVIS** container thoroughly immediately before use.
- Add the required volume of **MIRAVIS** to the spray tank.
- Replace cap after pouring.
- If tank mixtures are made, add the products to the tank in the following sequence (as applicable): buffers, water dispersible granule or bag, wettable powder, suspension concentrate (**MIRAVIS** and other suspension concentrates), emulsifiable concentrate, soluble liquid formulations then adjuvants.
- Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation while spraying.
- Prepared spray mixture must not be left in the spray tank for more than six (6) hours, as effectiveness may be reduced due to degradation of the product.

5.4 General Directions

It is recommended that **MIRAVIS** be applied preventatively only for the control of diseases on all crops.

5.4.1 Ground application

MIRAVIS must be applied as a full cover preventive spray for the control of the diseases mentioned. When applying **MIRAVIS**, ensure good coverage of the leaves of the crop to be protected. Check that the spray equipment is in good working condition and that the bar is adjusted to a height to ensure complete coverage. Ensure good coverage of the whole plant (the stems and both surfaces of the leaves) by using enough water and spraying equipment that is capable of maintaining high pressure. Avoid evaporation and drift.

6. RECOMMENDATIONS: Use only as recommended.

APPLES AND PEARS

| Disease | Dosage |
|--|---|
| Scab (<i>Venturia inaequalis</i>) Powdery mildew (<i>Podosphaera leucotricha</i>) | Ground application 20 - 25 ml/100 ℓ |
| Remarks | |
| <ul style="list-style-type: none"> • Apply as a preventative spray application when weather conditions favour disease development. • Initiate spray applications with the start of flowering stage and repeat applications with 7 - 14-day intervals. • Use the higher rate and shorter application interval when environmental conditions favour disease development | |

APPLES AND PEARS cont.

| |
|--|
| <ul style="list-style-type: none"> • or high disease pressure is expected. • Apply no more than four (4) applications per crop season. • For use in mixtures, apply a maximum of two (2) consecutive applications per block before alternating with fungicides with a different mode of action. • Apply with sufficient water volume to ensure complete coverage. • Alternate spray applications with fungicides with a different mode of action in a season long disease control program - follow FRAC guidelines (section 4). |
| Spray volume: |
| Ground application: 500 - 1 500 ℓ water/ha. |

GRAPES

(Table and wine grapes)

| Disease | Dosage |
|--|--|
| Powdery mildew (<i>Uncinula necator</i>) | Ground application 20 - 25 ml/100ℓ |
| Remarks | |
| <ul style="list-style-type: none"> • Apply as a preventative spray application when weather conditions favour disease development. • No more than 50% of the total number of applications per crop season should be applied with MIRAVIS. • For use in mixtures, apply a maximum of two (2) consecutive applications per block before alternating with fungicides with a different mode of action. • Alternate MIRAVIS spray applications with fungicides with a different mode of action, at registered label rates, in a season long disease control program. • Apply with sufficient water volume to ensure complete coverage. • For MIRAVIS use in a season long disease control program, follow FRAC guidelines (section 4). | |
| Powdery mildew control | |
| <ul style="list-style-type: none"> • Apply from sprouting stage/3 leaves unfolded (BBCH13) at 10 - 14-day intervals. Use the shorter interval when disease pressure is high. • Do no more than five (5) applications during the crop cycle. | |
| Spray volume: | |
| Ground application for Powdery mildew: 500 - 1 000 ℓ water/ha. | |

MIRAVIS® and **ADEPIDYN**™ is a registered trademark of a Syngenta Group Company.

© SYNGENTA AG, 2000. Copyright of this document is reserved. All unauthorised reproduction is forbidden.