

**BASE  
NON-PRINTABLE**

**TO CAUSE A HAZARD IN THE USE,  
STORAGE OR DISPOSAL OF THIS  
SUBSTANCE IS AN OFFENCE.**

**SC Formulation: Suspension Concentrate**  
**A systemic fungicide for the  
preventative control of powdery  
mildew and early blight in tomatoes.**

**Chemical group:**

Pydiflumetofen is a pyrazole carboxamide.  
Difenoconazole is a triazole.

**Shelf Life:** 2 years from date of manufacture  
if kept in the original unopened container  
under constant cool and dry conditions.

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 **Miravis Duo**  
An ADEPIDYN™ brand fungicide

**syngenta**

**Reg. No.**  
**22-B-61-32-B-108-1**

**Net content:**  
**250 ml**



**HARMFUL IF SWALLOWED**

**GROUP 7 3 FUNGICIDES**

**Composition (mass/volume)**  
Pydiflumetofen (ADEPIDYN™).....75 g/litre  
Difenoconazole (Triazole).....125 g/litre  
Inert ingredients.....to 1 litre

**Before using this product, read  
and understand the entire label.**

**Registered by:**

Syngenta Agro AG, 32 Sandringham Drive,  
Alexandra Park, Harare.

Tel.: 08677005432 / 08677005434

**Distributed by:**

**Emergency Call Number:**

Swiss Toxicological Information Centre (24 h)  
+41 44 251 51 51

**Manufacturer:**

Syngenta Crop Protection AG, Basel,  
Switzerland

**Date of manufacture/Batch No:** See inkjet  
print on the neck of the bottle.



**CAUTION**



20mm BOOKLET SPINE SHOULD BE KEPT VARNISH FREE

L1090721 ZIMB/07A PPE 4164724

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## PRECAUTIONS

- Handle with care; avoid splashing / contact; poisonous by swallowing inhalation and contact with the skin.
  - WEAR suitable personal protective clothing (**PPE**) i.e., boots, gloves and face protection for mixing and boots and overalls, hat, and solid footwear for spraying.
  - **DO NOT** eat, drink, or smoke while using this product.
  - **MAY BE DANGEROUS TO LIVESTOCK, PETS, FISH, BIRDS, AND BEES.**
  - **DO NOT CONTAMINATE DRINKING POOLS, DAMS, RIVERS, WATERWAYS AND OTHER WATER SUPPLIES.**
  - Store in original container, in a cool, dry place **UNDER LOCK and KEY.**
  - **KEEP OUT OF REACH OF CHILDREN.**
  - **KEEP APART FROM FOOD, FOODSTUFFS**, seeds, and fertilizers.
  - Use only on the crops for which the product is registered.
  - Avoid drift onto adjacent crops or soil.
- ENVIRONMENT AND WILDLIFE:**
- **DO NOT** apply under weather conditions or from spraying equipment that may cause spray to drift onto nearby susceptible plants / crops, cropping lands or pastures. **DO NOT** contaminate dams, rivers or streams with the product or used container. **DO NOT** spray across open bodies of water.

## SYMPTOMS OF POISONING

- Non-specific but may include nausea, vomiting, dizziness and headaches. Diarrhoea may also occur with associated symptoms.

## FIRST AID

**General advice:** Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control centre or physician, or going for treatment.

- **Eye splashes:** Immediately hold eyelids apart and pour in a gentle stream of water for 10-15 minutes. Go to a doctor.
- **Skin contact:** Immediately remove contaminated clothing; wash affected skin with plenty of water. Wash contaminated clothing before re-use.
- **If product is swallowed, DO NOT** make the person vomit. Take the person and this container to a doctor at once.
- **If inhaled:** Move victim to fresh air.

## NOTE TO PHYSICIAN

- No specific antidote is known.
- Perform gastric lavage, taking care to prevent aspiration of gastric contents. Then treat symptomatically.

## DISPOSAL OF EMPTY CONTAINER

Rinse the container 3 times with a volume of water equal to at least 25% of that of the container. Add the rinsate to the contents

of the spray tank. Destroy the empty container by perforation and flattening. Place it in a secure disposal area and offer it for recycling. **DO NOT** use it for any other purpose.

### **DECONTAMINATION OF SPRAYER**

After use, clean the sprayer thoroughly and ensure that all traces of MIRAVIS™ DUO are removed. Make use of the following method: (a) Drain tank and then rinse tank, sprayer boom and hoses with clean water for at least 10 minutes. (b) Fill tank with clean water and add to it 1,0 litre household bleach (5%) or 1,5 litres household bleach (3,5%) per 200 litres of water. Rinse hoses and sprayer boom and leave in the tank for 15 minutes whilst agitating. Drain through the nozzle outlets. (c) Repeat step (b) and thereafter, rinse thoroughly with clean water and dispose of the wash water at a site designated for the disposal of pesticides.

### **COMPATIBILITY**

If MIRAVIS™ DUO 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 cognizance must be taken of all warnings, precautions and directions for use on that label.

### **WARRANTY**

The user bears the risk for damage resulting from factors beyond the manufacturer's control. All recommendations for use of the

fungicide are based on the current state of the manufacturer's knowledge. Since the manufacturer cannot control the farmer's choice of fungicide, its application, use, or storage of the product, or other agronomic practices, the manufacturer cannot accept responsibility therefore.

Resistant strains of fungi may develop or may exist against which fungicides may be less effective. Since the occurrence of such strains cannot be forecast, neither the manufacturer nor its distributors can assume responsibility for any loss or damage caused by failure to control resistant fungi.

## **PRODUCT INFORMATION**

### **Mode of Action**

MIRAVIS™ DUO is a systemic fungicide for the preventative control of foliar diseases in various crops. It combines the action of a new active ingredient pydiflumetofen (ADEPIDYN™), from the chemical group of carboxamides, with difenoconazole, from the chemical group of triazoles. The mixture of both active ingredients determines a combined action, blocking the respiratory process and ergosterol synthesis of fungi. These qualities ensure a broad spectrum of control, reducing the risk of emergence of resistant strains.

**Pydiflumetofen** (ADEPIDYN™) is a broad-spectrum fungicide belonging to chemical group 7; inhibitors of succinate dehydrogenase or SDHI (FRAC). This inhibits Complex II of respiration where SDHI acts. It does not possess cross-resistance with triazoles or strobilurines, for which the mixture with these chemicals is recommended for a better handling of resistance.

It has prolonged residual effect, ensuring the protection of the leaves, delaying their senescence and keeping them green for a longer time, managing to express the maximum potential of the crop.

**Difenoconazole** is a preventative fungicide belonging to chemical group 3; inhibitors of membrane sterol biosynthesis (DMI) (FRAC). It significantly inhibits the subcuticular development of the mycelium of the fungi and prevents the development of the symptoms of the diseases. It has local systemic properties and translaminar capacity.

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

#### **Resistance Management:**

For resistance management, MIRAVIS™ DUO is classified as a group code 7 and 3 fungicides. Any fungus population may contain individuals naturally resistant to MIRAVIS™ DUO and other group code 7 and 3 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™ DUO or any other group code 7 and 3 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™ DUO against these possible resistant strains.

To delay fungicide resistance:

- Avoid the exclusive repeated use of fungicides from the same fungicide group code. Alternate or tank mix with products from different fungicide group codes.

- MIRA<sup>TM</sup> DUO is an ideal solution in this case, since it contains active ingredients from two different mode of actions (group 7 and 3).
- 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 Agro AG) or visit the FRAC website at <http://www.frac.info/frac/index.html>.

#### **DIRECTIONS FOR USE**

Use only as indicated.

Thorough, uniform coverage is essential for effective disease control.

#### **For safety when mixing:**

- Wear gloves, boots and eye protection (at least glasses). Undiluted MIRA<sup>TM</sup> DUO can irritate your eyes. If you get it in your eyes wash it out at once. If you spill it on your clothes, change and wash them immediately.
- Triple rinse empty container and pour washings into sprayer tank.

#### **For safety when spraying:**

- As with all chemicals avoid contact with the spray.
- Wear overalls and boots.

**For safety after spraying:**

- Wash yourself. Change and wash your work clothes.
- Destroy empty rinsed container by cutting or crushing then place in secure disposal site – **DO NOT** use it for any other purpose.
- Wash sprayer thoroughly. Dispose of wash water in a safe manner.

**Mixing instructions:**

MIRAVIS™ DUO is a suspension concentrate (SC) which must be diluted in water. For proper preparation, observe the following

**Instructions:**

Verify the proper functioning and correct calibration of the equipment before use. Half fill the spray tank with clean water - shake the MIRAVIS™ DUO container thoroughly, immediately before use. Add the required volume of MIRAVIS™ DUO 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™ DUO 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 hours, as effectiveness may be reduced due to degradation of the product.

**General use directions:**

MIRAVIS™ DUO must be applied as a full cover preventive spray for the control of the disease mentioned. When applying MIRAVIS™ DUO, 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 nozzles are held at a height that will ensure complete spray coverage. Ensure good coverage of the whole plant (the stems and both surfaces of the leaves) by using enough water and spraying equipment that can maintain high pressure. Avoid evaporation and drift.

**Re-entry period:**

DO NOT enter treated area until spray deposit has dried unless wearing personal protective equipment.

**Dosage rates and Recommendations**

CROP / DISEASE	DOSAGE ml/Ha	PREHARVEST INTERVAL (PHI)*
TOMATO Early blight ( <i>Alternaria solani</i> ) Powdery mildew ( <i>Leveillula taurica</i> or <i>Oidium neolycopersici</i> )	Ground foliar application 75 - 90 ml/100 litres water (750 - 900 ml/ha)	1 day

## REMARKS:

- Always apply as a preventative spray application when weather conditions favour disease development.
- Repeat at 7-day intervals. Use the higher rate in high disease pressure conditions and environments.
- Do not spray more than three (3) to four (4) times per crop cycle/season.
- For programs in which tank mixes are used, the number of MIRA-VIS™ DUO containing applications should not be more than 50% of the total number of fungicide applications per crop cycle/season.
- For use in rotations, apply two (2) consecutive applications per block before alternating with fungicides with a different mode of action.
- Alternate MIRA-VIS™ DUO spray applications with fungicides with a different mode of action.
- Ground foliar application: 200 - 1000 litres water/ha

**\*NOTE:** Compliance with these withholding periods will ensure that residues do not exceed local Maximum Residue Limits, 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, Maximum Residue Limits and recommended preharvest intervals.

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