

Reg. No. **L8687**

syngenta.

A water dispersible granule translaminar and contact foliar fungicide for the preventive control of downy mildew (*Plasmopara viticola*) in wine and table grapes.

GROUP



FUNGICIDE

Active Ingredients: mandipropamid (ISO proposed)/ (mandelic acid amide).......50 g/kg folpet (phthalimide)........400 g/kg



Hazard statements: Harmful if inhaled. Suspected of causing cancer. Very toxic to aquatic life with long-lasting effects.

Act No. 36 of 1947

Precautionary statements: Keep out of reach of children. Prevention: Obtain special instructions before use. Avoid breathing spray. Do not eat, drink, or smoke when using this product. Response: If exposed or concerned, get medical advice/attention. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage. Disposal: Dispose of contents/container to an approved waste disposal plant.

WARNING



UN 3077

Registration holder

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1. WARNINGS:

Hazard statements: Harmful if inhaled. Suspected of causing cancer. Very toxic to aquatic life with long-lasting effects.

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

TABLE GRAPES.....

4 - 6 weeks

before harvest (when berries are **pea size**, or depending on the cultivar growth length)

WINE GRAPES.....before harvest (when berries are pea size)

4 - 6 weeks

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.

- Harmful if swallowed and by inhalation.
- Toxic to fish and harmful to other aquatic life.
- Avoid contact with skin or eyes since product may cause eye and skin irritation.
- Store away from food and feed.
- Keep out of reach of children, uninformed persons and animals
- In case of poisoning: Call a doctor and present this label.
- **Re-entry:** Do not enter treated area within one (1) day after application 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 user and the occurrence of resistance of the weed 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: Keep out of reach of children. Prevention: Obtain special instructions before use. Avoid breathing spray. Do not eat, drink, or smoke when using this product. Response: If exposed or concerned, get medical advice/attention. Call a POISON CENTRE/doctor if you feel unwell. Collect spillage. Disposal: Dispose of contents/container to an approved waste disposal plant.

- Do not eat, drink, or smoke while handling this product.
- Prevent contamination of food, feed, drinking water and eating utensils.
- Keep locked-up and out of reach of children, other, unauthorised persons and animals.
- Wear rubber gloves and a face shield when handling the concentrate. If you get it in your eyes, flush it out at once.
 If you get it on your skin, wash it off at once. If you spill it on your clothes, change and wash them.
- While spraying, avoid contact with the spray as much as possible.
- Avoid spray drift onto other crops, grazing, rivers, dams, boreholes and areas not under treatment.
- Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams.
- Destroy empty container in the prescribed manner and do not use for any other purpose.
- Change and wash your work clothes. Wash yourself.
- Keep all livestock out of areas to be treated.

Symptoms of human poisoning: Never give anything by mouth to an unconscious patient and do not induce vomiting.

First Aid and Medical Treatment:

If poisoning is suspected, stop working immediately and call

a poison control centre or doctor. Present this label.

- Ingestion: If swallowed, repeatedly administer medicinal charcoal in plenty of water. Seek medical advice if large volumes of concentrate was ingested and present this label, do NOT induce vomiting.
- **Eye contamination:** Rinse immediately with plenty of fresh clean water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.
- **Skin contact:** Take off all contaminated clothing immediately. Wash skin immediately with plenty of water. Wash contaminated clothing before re-use.
- **Inhalation:** Move person to fresh air. If breathing is irregular or stopped, administer artificial respiration. Keep patient warm and at rest.

Note to doctor: There is no specific antidote if this product is ingested. Treat symptomatically.

3. RELEVANT SUBSTANCES:

Chemical name		Concentration (% w/w)
Not applicable	Not applicable	Not applicable

4. RESISTANCE MANAGEMENT:

PERGADO F is classified as a group code 40 and M04 fungicide. Any fungus population may contain individuals naturally resistant to **PERGADO F** and other group code 40 and/or M04 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 **PERGADO F** or any other group code 40 and M04 fungicides.

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 with products in other fungicide groups.
- Integrate other control methods (chemical, cultural, biological) into disease control programs.

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

4.1 General

- PERGADO F is recommended in spray sequence or alternation with products with different modes of action.
- A maximum of four (4) applications per crop cycle of products containing this group of fungicides is permissable.
- Blocks of two (2) applications of PERGADO F can be alternated with blocks of 2 - 3 applications of products with different modes of action.
- PERGADO F should always be applied preventatively as described in the recommendations table. Preventative applications are defined as those made when conditions favour disease development, but before symptom expression.

- Do not reduce the dosage rates below that which is recommended on the label.
- Do not increase the application intervals beyond that which is recommended on the label.

5. PRODUCT PROPERTIES:

Mandipropamid is highly active against foliar oomycete pathogens such as *Plasmopara viticola*, the cause of downy mildew in grapes. A large proportion of mandipropamid is adsorbed into the wax layer of plant surfaces after application assuring excellent rainfastness as soon as the spray liquid has dried. Mandipropamid is highly active against spore germination. Uptake into the leaf tissue assures good translaminar activity. Mandipropamid inhibits mycelial growth during the incubation period.

Folpet is a protectant residual fungicide. It provides a protective barrier on plant surfaces and inhibits germination of spores. Folpet is effective against oomycete pathogens and also against a range of other plant diseases e.g., dead arm disease (*Phomopsis viticola*) in grapes.

6. DIRECTIONS FOR USE: Use only as indicated.

6.1 Compatibility

PERGADO F is not compatible with products containing free metallic ions or products which are alkaline in nature.

The compatibility of **PERGADO F** with other products may be influenced by the formulation of the products involved as well as the quality of the water. Since the formulation of other products may change without the knowledge of Syngenta and the quality of water may vary from farm to farm, a physical compatibility test and small scale testing should always be carried out prior to application.

When using in combination with other products, ensure that all WITHHOLDING PERIODS, WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE mentioned on the label of other products are adhered to.

6.2 Mixing Instructions

Replace cap after use.

- Fill the spray tank one-quarter with clean water, start agitation, add the measured quantity of PERGADO F and continue to fill the spray tank.
- Use sufficient agitation during mixing and application to maintain a uniform suspension. If **PERGADO F** needs to be used in tank mix combinations, first mix small quantities of the chemicals separately with water.
- Add these mixtures together while agitating and check for any signs of incompatibility e.g., flocculation, etc.
- Continue agitation throughout application and do not allow the tank mixture to stand still for any period of time.

6.3 Application

Ensure that the application equipment to be used is in a good working condition and correctly calibrated. Use the spray volumes as indicated to ensure good coverage. Ensure thorough agitation of the mixture in the tank during mixing and spraying.

PERGADO F may be applied with conventional high-volume spray equipment. Calibrate the apparatus before application to ensure that the correct dosage is applied. The distribution of the spray volume must be uniform throughout the target area.

PERGADO F must be applied as a full-cover preventative spray for the control of downy mildew. Ensure good coverage of the whole plant (the stems, both surfaces of leaves and the grape bunches) by using enough water and spraying equipment that is capable of maintaining high pressure.

PERGADO F is rainfast within 15 minutes after the spray deposit has dried.

7. APPLICATION RATES:

PERGADO F is recommended for preventative applications for the control of downy mildew, in two (2) blocks of two (2) applications at spray intervals of 7 - 10 days per block.

Never use **PERGADO F** as a corrective treatment or after an unsuccessful application of any product.

TABLE AND WINE GRAPES

Disease	Dosage/100 ℓ spray mixture	Remarks
Downy mildew (Plasmopara viticola)	200 g	 7 - 10-day interval. Apply in 250 - 1 000 ℓ of water depending on the crop growth stage.
	250 g	 10 - 14 day-interval. Apply in 250 - 1 000 ℓ of water depending on the crop growth stage.

- The risk for downy mildew infection is high when during a given 24 hour period the average temperature is between 15°C and 20°C combined with at least 10 mm of rainfall. Ensure that **PERGADO F** is applied before the onset of such conditions.
- Apply as a full-cover preventative spray.
- Apply as blocks of two (2) consecutive sprays 7
 10 days apart when the weather favours the disease.
- Using PERGADO F as indicated will control downy mildew on both the leaves and the grape bunches.
- Do not apply more than four (4) applications of **PERGADO F** per season.
- Do not reduce the dosage rates below that which is recommended.
- Do not increase the application intervals beyond that which is recommended.
- Never use PERGADO F once the disease has appeared (i.e., curatively) or when the application of other chemicals have failed to control downy mildew.
- Application volumes for table and wine grapes:
- Pre-blossom: Apply in 250 500 ℓ spray mixture/ha.
- During blossom: Apply in 500 750 ℓ spray mixture/ha.
- Post-blossom: Apply in 750 1 000 ℓ spray mixture/ha.

TABLE AND WINE GRAPES cont.

- **PERGADO F** is safe to beneficial insects and honeybees.
- **PERGADO F** contains full rates of folpet. Applications made until flowering will also contribute towards the control of powdery mildew (*Oidium tuckeri*), anthracnose, dead arm (*phomopsis viticola*) and *Botrytis*.
- Do not use PERGADO F later than the pea berry size on table grapes as the maximum residue level of folpet may be exceeded, and visual residue may appear.

Suggested spray program for the control of DOWNY MILDEW:

- Since PERGADO F provides excellent control of downy mildew on the grape bunches, the application of PERGADO F should be focussed on the period of bunch development e.g., from the end of flowering to the pea size berries.
- PERGADO F should be part of a season-long program to control downy mildew.
- Standard applications of contact fungicides e.g., mancozeb could be made in the early pre-blossom period.
- **PERGADO F** can be used in a spray program with RIDOMIL GOLD PEPITE (L7191), mancozeb, THIOVIT JET (L1061) and TOPAZ (L5246).

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