

TECHNICAL DATA SHEET  
VERSION OCTOBER 2020**PREV-AM<sup>®</sup>**

\*PREV-AM is also marketed as PREV-AM and PREVAM

**Product Category**  
Plant Protection**Use Category**  
Professional**Registration Number**  
Refer to the national commercial label**Formulation Type**  
Micro-emulsion (ME)**Active substance/content**  
Orange oil / 6% w/v**BIOPESTICIDE**

## General information and key benefits

**PREV-AM<sup>®</sup>** is a biopesticide based on the botanical active substance orange oil. As a plant extract, Orange oil is exempted from Maximum Residue Level (MRL) tolerances; **PREV-AM** has 3 days of pre-harvest interval. Therefore, it is an excellent tool to control pests prior to harvest. As **PREV-AM** has a physical mode of action, it offers an alternative method of control compared to conventional pesticides. **PREV-AM** is therefore ideal for inclusion in resistance management strategies on a

rotational basis as a “resistance breaker” in order to break the cycle of resistance build-up to conventional pesticides. The impact on beneficial insect populations does not appear to be significant due to the low persistence of **PREV-AM** on the treated plants.

## Mode of action

**PREV-AM** has a physical mode of action which desiccates the cuticles of soft bodies insects such as white flies, thrips, leafhoppers as well as the cellular walls (or phospholipid layer) of fungal diseases. This mode of action is due to the lipophilic properties of orange oil which has the ability to penetrate and to break down protective layers on insects and external mycelia and sporangia of fungi, causing a high rate of mortality in the pests and a substantial reduction of the inoculum for pathogens.

The active ingredient spreads into the water repellent layer that protects insects, penetrates it and destroys the soft living tissues underneath. The insects are then exposed to loss of body fluids, causing death. Flying insects lose the protective coverings and tension in the wings, making them unable to fly.

**PREV-AM** as fungicide, penetrates the protective

membranes of the superficial fungal mycelia (hyphae), sporangia and spores breaking them down and exposing them to the drying effect of the atmosphere. Plant tissue damaged by the fungus may also dry out and prevent further spread of infection, but healthy tissue is not affected at the recommended application rate.

The physical disruption of the protective layers occurs only upon direct contact while the spray residue remains wet, resulting in immediate knockdown within 24-48 hours.

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Authorized uses. Application rate and timing (France label example)

*Refer to national label for uses.*

CROP	USE	CONCENTRATION MAX	MAX DOSE RATE (L/HA)	MAX NUMBER OF TREATMENTS
Grape	Downy mildew	0,80%	1,6	6
	Powdery mildew	0,80%	1,6	6
	Thrips	0,80%	1,6	6
	Leafhopper	0,80%	1,6	6
	Eriophyidae mites	1,00%	2	2
<b>Berries</b>				
Blackcurrant	Powdery mildew	0,80%	2,4	6
	Mites	1,00%	2	2
	Leafhopper, Psyllid	0,80%	2,4	6
Strawberry	Powdery mildew	0,60%	3	6
	Thrips	0,80%	4	6
Raspberry	Powdery mildew	0,80%	2,4	6
	Mites	1,00%	2	2
	Leafhopper, Psyllid	0,80%	2,4	6
<b>Orchards</b>				
Citrus	Leafhopper, Psyllid	0,80%	8	6
	Mites	0,60%	6	6
	Whiteflies	0,80%	8	6
	Mealybugs	0,80%	8	6
	Psyllid	0,80%	8	6
	Thrips	0,80%	8	6
Kiwi	Leafhopper, Psyllid	0,80%	8	6
Peach, Apricot	Powdery mildew	0,60%	6	6
Pomefruit	Leafhopper, Psyllid	0,80%	4	6
	Powdery mildew	0,40%	2,8	6
	Psyllid	0,40%	2,8	6

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CROP	USE	CONCENTRATION MAX	MAX DOSE RATE (L/HA)	MAX NUMBER OF TREATMENTS
<b>Vegetables</b>				
Cabbage	Whiteflies	0,40%	2	6
	Thrips	0,80%	4	6
	Rust	0,50%	2	6
Carrot	Powdery mildew	0,60%	2,4	6
Chicory (root production)	Powdery mildew	0,60%	3	6
Cucumber	Whiteflies	0,40%	4	6
	Powdery mildew	0,80%	8	6
	Thrips	0,80%	8	6
Dry leguminous crops	Thrips	0,80%	4	6
Leek	Thrips	0,80%	6,4	6
Lettuce	Whiteflies	0,40%	2	6
	Powdery mildew	0,60%	3	6
	Downy mildew	0,60%	3	6
Melon	Whiteflies	0,40%	2	6
	Powdery mildew	0,80%	8	6
	Thrips	0,80%	8	6
Onion	Thrips	0,80%	3,2	6
Pepper	Whiteflies	0,40%	2	6
Pickle	Whiteflies	0,40%	2	6
	Powdery mildew	0,80%	4	6
Salsify	Powdery mildew	0,60%	3	6
Tomato	Whiteflies	0,40%	2	6
	Thrips	0,80%	4	6
Turnip	Downy mildew	0,40%	3,2	6
Zucchini	Whiteflies	0,40%	2	3
	Powdery mildew	0,80%	4	6

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CROP	USE	CONCENTRATION MAX	MAX DOSE RATE (L/HA)	MAX NUMBER OF TREATMENTS
<b>Tropical crops</b>				
Pineapple	Mealybugs	0,80%	8	6
Avocado	Whiteflies	0,80%	0,8	6
	Mealybugs	0,80%	0,8	6
	Thrips	0,80%	0,8	6
	Lace bug	1,00%	1	6
	Whiteflies	0,80%	2	6
Banana	Mealybugs	0,80%	2	6
	Thrips	0,80%	2	6
	Mites	0,80%	8	6
Passion Fruit	Mealybugs	0,80%	8	6
	Thrips	0,80%	8	6
	Whiteflies	0,80%	8	6
Guava	Whiteflies	0,80%	8	6
Mango	Whiteflies	0,80%	8	6
	Mealybugs	0,80%	8	6
	Powdery mildew	0,80%	8	6
	Thrips	0,80%	8	6
	Whiteflies	0,80%	8	6
Palm tree	Whiteflies	0,80%	8	6
Papaya	Mites	0,80%	8	6
	Mealybugs	0,80%	8	6
	Powdery mildew	0,80%	8	6
	Whiteflies	0,80%	8	6
<b>Ornamentals</b>				
Ornamental trees & shrubs	Powdery mildew	0,60%	6	6
	Leafhopper, Psyllid	0,80%	8	6
	Thrips	0,80%	6,4	6
Ornamental plants	Whiteflies	0,40%	4	6
	Powdery mildew	0,60%	6	6
	Rust	1%	10	3
	Thrips	0,80%	6,4	6
Rose	Whiteflies	0,40%	4	6
	Powdery mildew	0,60%	6	6
	Thrips	0,80%	8	6

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CROP	USE	CONCENTRATION MAX	MAX DOSE RATE (L/HA)	MAX NUMBER OF TREATMENTS
<b>Industrial crops</b>				
Hop	Powdery mildew	0,60%	6	6
Tobacco	Whiteflies	0,40%	2	6
	Powdery mildew	0,60%	3	6
	Downy mildew	0,60%	3	6
	Thrips	0,60%	3,2	6
<b>Aromatic plants</b>				
Taragon	Powdery mildew	0,60%	3	6
Infusion (dry)	Maladies fongiques	0,60%	3	6
Parsley	Powdery mildew	0,60%	1,8	6

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### Mode of application

**PREV-AM<sup>®</sup>** must be applied as a foliar spray

### Further recommendations

- In greenhouse, it is recommended to reduce the concentration of **PREV-AM<sup>®</sup>** by 100-200 ml / hl (0.1% - 0.2%) than the doses reported in the table. In the case of a simultaneous infestation of powdery mildew and white flies, a single application will have effect on both adversities, using the highest dosage.
- In case of low water volume rate, the dose per hectare may be reduced maintaining the concentration of **PREV-AM** between 400ml/hl and 800 ml/hl.
- It is recommended to apply **PREV-AM** on dry vegetation to avoid the dilution of the product, which decreases the efficacy of the treatment. A good spray quality is needed to optimize contact action.
- It is not recommended the application on vegetation suffering from water stress.

### Classification

#### WARNING

- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H411 Toxic to aquatic life with long lasting effects.
- P102 Keep out of reach of children
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray
- P270 Do not eat, drink or smoke when using this product
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTER/doctor if you feel unwell
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P391 Collect spillage
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.



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### Physical and chemical properties

- Physical state: Liquid
- Form: Liquid
- Colour: Dark green
- Odour: Citrus
- pH: 8,02
- Flash point Pensky-Martens: > 93°C
- Evaporate rate: Not relevant
- Flammability (solid, gas): Not applicable
- Relative density: 1.0125 (water = 1)
- Solubility (water): Unknown
- Partition coefficient (n-octanol/water): not relevant
- Auto-ignition temperature: Not relevant
- Decomposition temperature: unknown
- Viscosity: 103,5 e 111,9 mPa/s at 20°C

These physical properties are typical values for this product and should not be considered as guarantees of any specific lot.

### Phytotoxicity

**PREV-AM** showed no phytotoxicity at doses and recommendations indicated on the label. Considering the continuous introduction of new varieties of vegetable and crops, it is recommended to evaluate the selectivity of **PREV-AM** on small surfaces before proceeding.

### Compatibility

Experience has shown that **PREV-AM** is compatible with most crop protection products and foliar fertilizers. Do not mix **PREV-AM** with other products unless prior tests (including small scale phytotoxicity tests) to prove the combination to be physically compatible, effective and non-injurious to the target crop under local conditions.

In case of tank mixing with other pesticides having the same target, we recommend using the lower doses shown on the label.

If in doubts about the compatibility of mixtures, it is recommended to contact the Oro Agri technical representative of your area.

**Please always refer to the national commercial label for the specific directions for use of PREV-AM. Feel free to contact the local ORO AGRI advisor in your area for more information.**

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