

BIOMITICIDE

BIOFUNGICIDE

BIOINSECTICIDE

TECHNICAL REPORT

Integrated Pest Management

WITH **APPEAL**





APPEAL® is a next generation 3-in-1 fungicide, insecticide, and miticide boosted with OROWET® Technology for superior compatibility and uniform applications. It offers broad-spectrum, fast-acting control against a variety of pests without requiring preharvest intervals (PHI) or maximum residue limits (MRL). This makes it an ideal partner for integrated pest management (IPM) and resistance management programs.

MODE OF ACTION

- Contact, non-residual mode of action breaks down waxy layers of insect and mite exoskeletons, causing desiccation.
- Breaks down protective layers of exposed fungal mycelium and spores causing rapid desiccation.
- Best efficacy when directed at the soft-bodied insects and life stages.

ADDED VALUE

- Use alone or in combination with other industry-standard chemistries.
- Manage pest resistance with alternate mode of action.
- Low impact on beneficial insect populations.
- Low phytotoxicity concerns when used as directed.

Integrated Pest Management

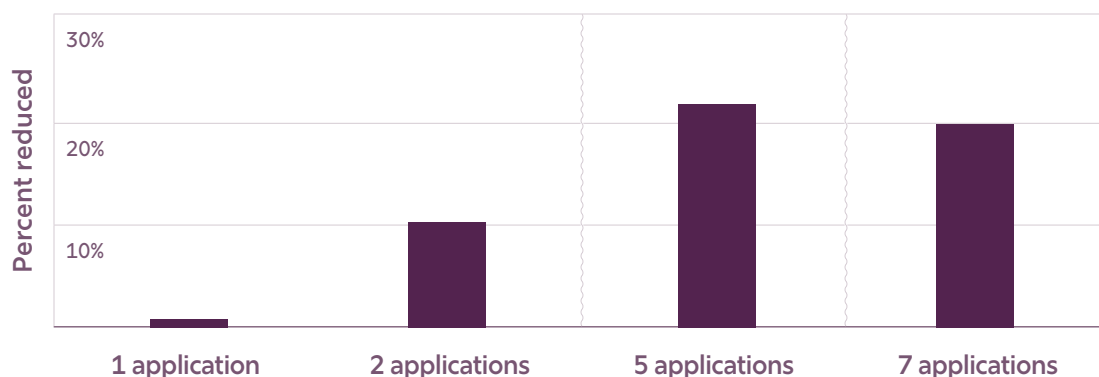
APPEAL leaves no residues after the spray has dried, it has minimal impact on beneficial insect populations and can be safely used in indoor or outdoor environments.

Field studies on the predatory mite *Typhlodromus pyri* have shown only limited (statistically insignificant) mortality even after several applications of APPEAL.



APPEAL has a low impact on beneficial insects.

PREDATORY MITE REDUCTION



Vegetable growers can use APPEAL in an integrated program, alternating sprays with the release of biological control agents.

As a result of its physical-contact mode of action, APPEAL can be used to manage resistance in pests and diseases. No cross-resistance is currently known.

Directions for Use

APPLICATION TIMING

Direct contact with the target is required, so it is recommended to apply APPEAL at the first signs of insect or mite infestation or disease infection.

For low infestation levels, a single spray may be sufficient. Under higher infestation conditions, 2–3 corrective sprays with 7–10 day intervals may be required. Sprays can usually be reduced with weekly applications.

Do not spray while leaf surface is wet from dew, rain, or irrigation, or if rain is expected within the next six hours.

PREPARING MIXTURE

Always add the recommended amount of APPEAL last (when the tank is nearly full) to prevent excessive foaming. Adjuvants are not required when APPEAL is applied alone or in tank mixture with other pesticides. APPEAL is not pH sensitive, so a buffer may be added if required for the tank mix partner.

SPRAY VOLUME

For best results, ensure that both leaf surfaces are thoroughly wet (until just before the point of run-off) to ensure direct contact with the target pest or disease. Use normal water volume as planned for the specific growth stage of the crop. APPEAL is well suited to both high and low water volume applications.

HOW TO APPLY

NOTICE

Spray equipment should be carefully calibrated before use.

APPEAL is compatible with various sprayers, including hand operated, motorized atomizers and boom sprayers.

APPLICATION RATE

Dose rate may range from 0.4–0.6% (400–600 ml/100 L), depending on the target pest.

NOTICE

Always read & follow label directions.

Crop Safety

APPEAL is safe for most crops when applied at the recommended rate.

NOTICE

It is recommended to conduct a small scale trial prior to application on a large scale.

Applying APPEAL at high rates combined with sulphur products in high-temperature conditions may increase potential phytotoxicity in cases where the crop is known to be sensitive to sulphur burn.

APPEAL has no negative effect on photosynthesis and does not cause stress in plants, even with regular use.

APPEAL dissolves old spray residues in spray tanks. When using APPEAL for the first time, it is recommended that the spray tank is left overnight with a solution of APPEAL and then flushed out the following morning to prevent damage or unwanted residues being deposited on the crop.



APPEAL is generally safe to use on vegetables.

REENTRY PERIOD

APPEAL has a 4-hour REI. Do not enter the treated area before spray has dried unless wearing protective clothing.

PREHARVEST INTERVAL

APPEAL has a zero-day PHI on all crops. APPEAL can be safely used up to harvest and between consecutive pickings. When tank mixing, consider the PHI of the tank mix partner.

Environmental Impact

Orange oil is a renewable resource with a manufacturing process that has a very low energy requirement and because of this has a very small impact on the environment.

APPEAL has very low toxicity and poses very little risk to the spray operator. Long pants, long sleeve shirt, water resistant gloves, protective eyewear are still required.

Orange oil—the active ingredient of APPEAL—is a natural extract that leaves no residue on crops, making any risk to consumers negligible.

Although APPEAL is biodegradable, it may represent an acute risk to aquatic environments if used incorrectly. Do not apply near open water (lakes, rivers, streams, etc.) unless a suitable buffer zone is maintained.

NOTICE

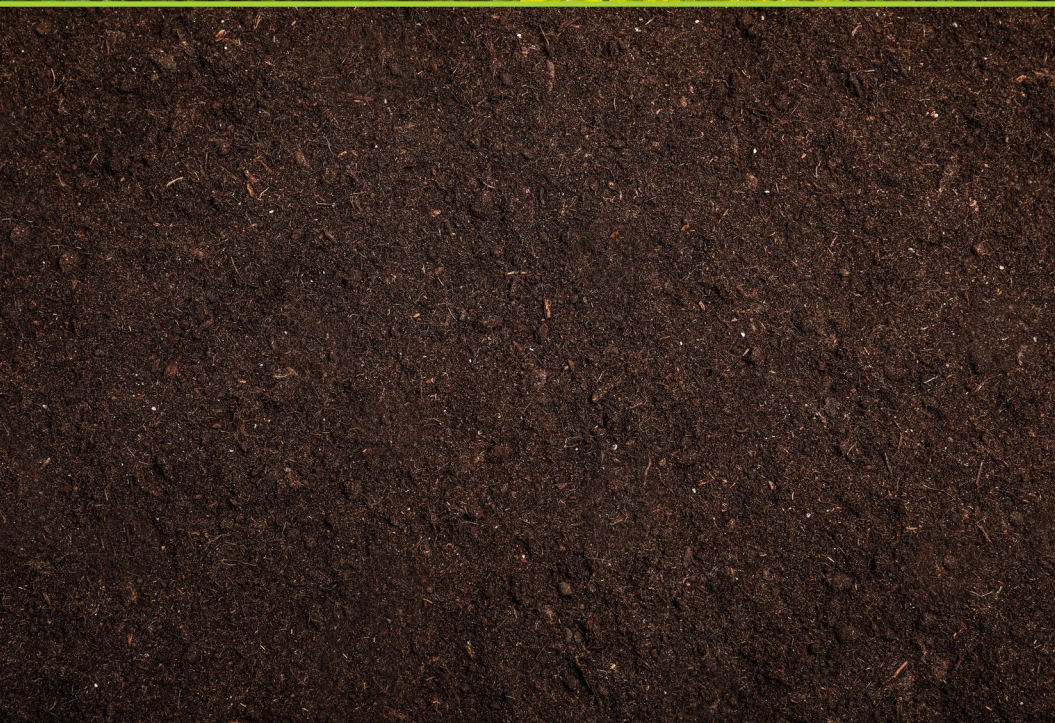
Always follow label instructions for storage, disposal of containers and safe handling.



APPEAL has a low toxicity to spray operators, so minimal protective clothing is required when making applications.

Notes





For more information contact your local
representative or visit rovensanext-na.com

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