FROM THE CREATORS OF HYGROZYME®

HYGROPUNCH™ Usage Instruction

HYGROPUNCH is a plant-derived biopesticide that can be used in both organic and conventional operations to control insects, mites, and diseases. This formulation contains three essential oils. The nonchemical processes used to manufacture these oils allow the oils to retain bioactive compounds, resulting in effective insect, mite, and disease management.

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How Does HYGROPUNCH™ Work?

- On contact as an insecticide, fungicide, and miticide.
- Combats pests through multiple modes of action with a combination of three active ingredients in an optimal ratio that makes it effective on all stages of insects.
- Coats the pests and causes suffocation by blocking breathing holes.
- Possesses fungicidal properties to manage key diseases through the disruption of cell membrane causing cell inhibition/death.
- Can be used as a media drench as a solution of 0.5-1% dilution.
- HYGROPUNCH has no known resistance, making it an ideal tank-mix/or rotation partner for your IPM program for managing insects and diseases.

HYGROPUNCH™ Formulation:

- 75% Active Ingredients – Soybean oil, Cinnamon oil, Thyme oil.
- 25% Inert Ingredients.
- Emulsifiable Concentrate.

Technical Information:

- 0 - Hour restricted-entry interval (REI).
- 0 - Day preharvest interval (PHI).
- Exempted from tolerances.
- Qualified for exemption from EPA registration under Federal Insecticide, Fungicide and Rodenticide Act (FIFRA).
- OMRI listed.
- Minimal personal protective equipment (PPE) requirement.
- Biodegradable.

Direction Of Use:

- HYGROPUNCH is an emulsifiable concentrate (EC) and it MUST be diluted with water before foliar application.
- The application rate for foliar spray depends on the pest level & disease pressure.
- Ensure uniform distribution across all foliage surfaces —especially lower leaf surfaces, where pests/diseases may hide.
- The table below depicts the application dosage and application interval:

Foliar Dosage		Application Interval
Preventative	0.5% (19mL/Gal)	3-4 Days
Light pressure or infestation	1.0% (38mL/Gal)	5-6 Days
Moderate pressure or infestation	1.5% (57mL/Gal)	7-10 Days
Heavy pressure or infestation	2.0% (76mL/Gal)*	7-10 Days

*** Do not exceed 2.0% (76mL/Gallon)**

- Apply HYGROPUNCH only up to the first 2 weeks of the flowering stage with a maximum dosage of 0.5% (19 mL/gallon) during the flowering stage.
- Apply as a fine foliar spray to achieve uniform coverage of all leaf surfaces (including undersides), ensuring visible wetting without runoff.
- Avoid excessive application that may result in droplet coalescence or leaf saturation, which can increase the risk of phytotoxicity.
- Recommend using fine to medium droplets (~150–300 µm) for even coverage across the lead surface without dripping or pooling.

Learn more

www.hygrozyme.com @hygrozyme 1.800.565.3070

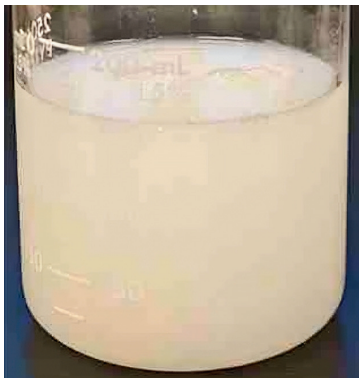
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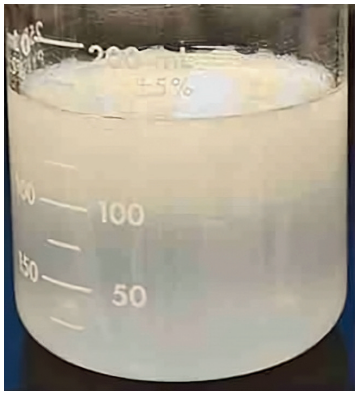
HYGROPUNCH is an OMRI listed broad spectrum contact insecticide, miticide and fungicide product containing essential oils for the control and suppression of pests such as spider mites and aphids, and diseases such as Powdery Mildew. HYGROPUNCH is for use on ornamentals, vegetables, and flowering plants in indoor, other enclosed growing structures such as greenhouses, and outdoor field applications.

Mixing Instructions:

- Fill a clean tank with half the amount of required water (clean filtered water recommended).
- Following the application table, gently shake the HYGROPUNCH bottle and add the desired amount.
- Fill the tank with the remaining amount of water and thoroughly mix until a homogenous emulsion is achieved.
- The diluted mixture (emulsion) can last for up to 2 weeks; however, the emulsion will separate after 3-4 hours (see picture below) depending on the size of the diluted mixture.
- If separation of the diluted mixture has occurred, simply stir or shake the mixture until a homogenous milky white emulsion is achieved.



HYGROPUNCH after dilution and thoroughly mixed



Separation of dilute mixture (emulsion) after a prolong period of time

To Minimize Phytotoxicity Risk:

- Avoid application during periods of high heat or plant stress (e.g., drought, recent pruning).
- Ensure the plants have enough space between each other to air out after the application.
- For outdoor applications, apply during cooler parts of the day, in early morning or late afternoon/early evening, when temperatures are below 28°C (82°F) and humidity is >50% to reduce evapotranspiration and leaf scorch.
- For indoor applications, apply when the temperature is below 80°F with artificial lights turned off and when plants have not been exposed to lights for a prolonged period.
- Always perform a small-scale trial before large applications, using on sensitive crops, or mixing with other agrochemicals.
- DO NOT spray to the point of dripping. This helps reduce waste and avoids the risk of leaf burning.
- To visualize proper spray coverage, you can place water-sensitive spray cards on the canopy. These yellow cards change to blue or green when sprayed, simulating leaf surfaces and showing saturation levels. They help assess spray coverage, droplet size, and distribution. See the three images below for examples of insufficient, optimal, and excessive spray coverage.



Not Enough



Right Amount



Too Much

HP-EN-USAGE-R00