

Berezi®

Agricultural Fungicide

FAST ACTING CURATIVE & PREVENTATIVE FUNGICIDE

IMPROVING AN INDUSTRY STANDARD. Berezi® contains patented technology that combines the innovative potassium carbonate active ingredient with thyme oil to expand the spectrum of disease control, reduce crop phytotoxicity, and improve mixing and loading.

HARD-WORKING BEREZI® FUNGICIDE KEEPS CROPS CLEAN OF DISEASE AND VISIBLE RESIDUE

Berezi® agricultural fungicide works through two active ingredients and multiple modes of action and sites of activity to rid high-value fruit and vegetable crops of quality- and yield-robbing diseases like Powdery mildew, Botrytis, Alternaria, and molds. In addition to being tough on diseases, Berezi® delivers reduced crop phytotoxicity potential through its active ingredient potassium carbonate compared to other products containing potassium bicarbonate.

TARGET DISEASES	FOR USE ON	KEY FEATURES AND BENEFITS
Powdery mildew	Berries	✓ Contact-Kill effects within minutes
Botrytis	Citrus	✓ Two active ingredients work through multiple modes of action and sites of activity to fit within resistance management programs
Alternaria spp.	Grapes	✓ Synergistic membrane disruptor + alkaline desiccant system
Molds	Herbs	✓ Faster, more complete fungal kill
Brown rot	Pome Fruit	✓ High mycelium wettability for superior curative control with lower doses
	Stone Fruit	✓ No visible residue on fruit for improved marketability of fresh produce
	Tree Nuts	✓ Superior crop safety, does not form carbonate crystals which can damage crop tissue
	Vegetables	✓ Easy to use as it mixes and loads easily, going into solution easily and remains in suspension
		✓ Soluble, effervescent formulation that won't settle in the spray tank
		✓ No disease resistance

*See product label for complete list of crops and diseases.



ZERO VISIBLE RESIDUE



4-HOUR REI



CURATIVE AND PREVENTATIVE



0-DAY PHI



BENEFICIAL PREDATOR SAFE



MRL EXEMPT

RECOMMENDED USAGE AND RATES

For disease prevention, begin applications of Berezi® when conditions are conducive to disease development or at first sign of disease infections. For best results, apply Berezi® at 5- to 10-day intervals or until conditions no longer favor disease development. Do not make more than 10 applications in one year.

- Mix 2-7 pounds of Berezi® in 100 gallons of water.
- Apply a minimum of 20 gallons of mixed spray solution per acre.

TANK-MIX COMPATIBILITY

Berezi® is unstable under highly alkaline conditions and is incompatible with acid-acting products (pH 7 or below) and with products containing copper salts and aluminum, zinc, or their alloys. Do not use Berezi® in water with pH values above 8 unless a buffer is added to create a neutral pH before Berezi® is added to the tank.

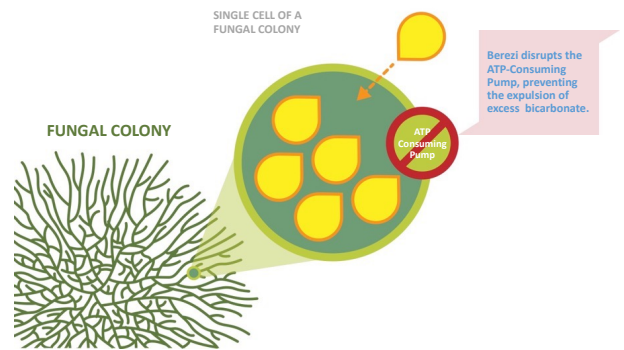
BEREZI® ACTIVE INGREDIENT

POTASSIUM CARBONATE..... 58.04%
RED THYME OIL 1.75%

SITES OF ACTIVITY & MODES OF ACTION

Berezi® fungicide employs multi-site activity and multiple modes of action (MOAs) to disrupt all active, in-season life stages and deliver curative and preventative control on contact.

Once carbonate enters into solution, it mostly turns into bicarbonate ions. Bicarbonate ions enter the cells of the pathogen. Thyme oil increases bicarbonate accumulation inside the cell walls by inhibiting the activity of an ATP consuming pump responsible for pumping out excess bicarbonate ions.

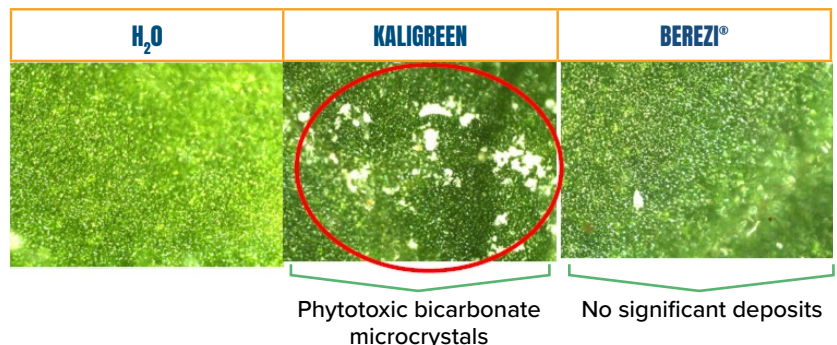


- Fast reaction increases solubilization of KHCO₃
- Co-formulants are biodegradable.
- Thyme Synergist is adsorbed into the cuticle/ evaporates
- Result = Clearer solution

ACTIVE INGREDIENT	MODE OF ACTION	SITE OF ACTIVITY
Potassium carbonate	Osmotic shock	Creates high osmotic pressure environment to accelerate ion imbalance and dehydration, speeding up cell collapse
	pH disruption	Elevated pH inhibits spore germination and hyphal growth and increases susceptibility to phenolic compounds (e.g., thymol)
Thyme oil	Membrane disruption	Penetrates and disrupts cell membranes to increase permeability and weaken membranes
	Protein denaturation	Inhibits responses to external stressors to limit fungal growth

REDUCED RISK OF PHYTOTOXICITY

The formation of phytotoxic carbonate crystals is avoided with Berezi® by the use of carbonate versus bicarbonate.



LEARN MORE AT SYM-AGRO.COM

Important: Always read and follow label instructions.
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