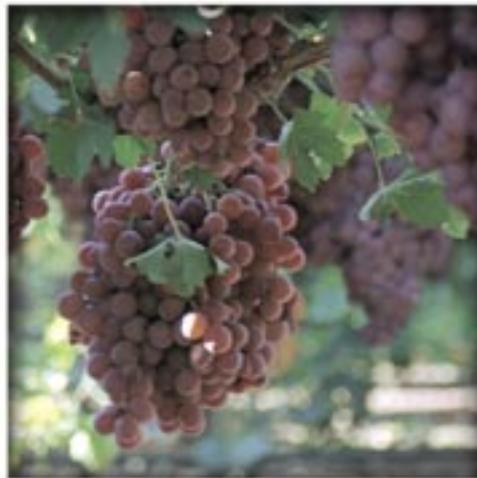


Quintec* Fungicide

FOR POWDERY MILDEW



SUPERIOR BUNCH PROTECTION



Quintec* Fungicide

- **Superior protection of bunches**
- **21-day spray interval¹**
- **Totally new mode of action**

Your grapes have never looked so good.

Introducing Quintec* fungicide, a new product for control of powdery mildew in grapes that offers benefits that you've never experienced. Benefits like **superior bunch protection** coming from the unique ability of Quintec to move around fruit and foliage after application. Benefits like a **21-day spray interval** that protects foliage and bunches long after application. And benefits like a **new mode of action** never before used in grapes.

Quintec defines the evolution of powdery mildew fungicides and sets a new standard for powdery mildew control. And if you're in the business of producing high-quality grapes, Quintec will be an important part of your powdery mildew program.

¹Intervals may be extended beyond 21 days using the UC Risk Index model.



Efficacy

- **Excellent control of powdery mildew**
- **21-day spray interval**

Quintec provides **unsurpassed powdery mildew control** (and we've got the evidence to prove it). Since 1997, Quintec has been included in University of California powdery mildew efficacy trials. Each year, a program that included Quintec ranked as the highest performing program — either statistically or numerically. Performance — as measured by incidence and severity — remains high in both high and low pressure situations. Quintec is typically applied at 6 ounces per acre.

Quintec Fungicide is truly “tested” in real world conditions. In addition to university trials, Quintec has been used in numerous commercial field trials throughout the state, including areas of the San Joaquin Valley, the Coachella Valley and along the North and Central Coasts of California. Results from these multi-acre field trials corroborate what the university trials show — outstanding powdery mildew control on all varieties.

The university and grower field trials also demonstrated the ability of Quintec to provide up to **21 days of powdery mildew control** at certain rates. Proper use of the UC Risk Index could allow intervals to be extended beyond 21 days.

Worldwide, quinoxyfen is used extensively for powdery mildew control, including being the leading fungicide used in French grapes. In the United States, quinoxyfen has shown superior control in cucurbit, cherry and hop trials.



Bunch Protection

- **After application, Quintec continues to move around bunches and foliage**
- **Areas on the plant out of the direct line of spray are protected**

Not only can mildew be found on every part of the grapevine, it typically thrives best in the most hidden areas — like the underside of leaves and the backside of bunches. These remote areas are where conditions for mildew development are the most favorable. They are also the areas most difficult to reach with a fungicide. Combine that knowledge with the fact that grape bunches — whether wine, table or raisin grapes — are what you're selling. They're the part of the plant that needs the most care and the most protection from diseases like powdery mildew. Quintec can help.

Quintec has the unique **ability to redistribute across expanding leaf and berry tissues after application.** This continual redistribution process can protect parts of leaves and grape bunches that may not have received direct spray coverage. Although this redistribution should not substitute for proper application, the movement of Quintec to these hard-to-cover areas helps to protect bunches (and leaves) on all sides, providing **enhanced coverage.**

(illustration showing redistribution process)



Quinoline

- **In a class by itself, literally**
- **Makes your whole mildew control program stronger**

Chemical Class: Quinoline

Active ingredient: quinoxyfen

Mode of action: Microbiological studies have shown that the inhibition of mildew may be through disruption of early cell signaling events that control morphological changes leading to infection. Microscopically, it has been shown to interfere with pre-infection developmental stages by suppressing germination, early germ tube development and/or appressorium formation.

After application, Quintec penetrates into the plant tissue (i.e. leaves, fruit) and binds to cuticular waxes. **Redistribution/movement occurs primarily through local vapor movement** (i.e. the slow release of quinoxyfen vapor and its re-adsorption on adjacent plant tissue). In short, Quintec has a very "active" active ingredient.

Quintec Fungicide is the **only member of the quinoline class of chemistry**. Its mode of action is one-of-a-kind and unique only to Quintec. These qualities, combined with outstanding efficacy, can only **make your current mildew program stronger**. Quintec is an excellent rotational product with 1) products from other fungicide classes such as sterol inhibitors and sulfur and 2) other extended residual products.

Other characteristics of Quintec

No Effects of Wine Quality: Residues of Quintec remain on grape skins and would not be found in wine or distillates. Quintec has no effect on the yeast strains critical to fermentation.

Favorable Environmental Profile: Quintec has been classified by EPA as a **"reduced risk compound."**

Worker Safety: The product label carries the signal word, "Caution," the lowest human hazard signal word available.

Excellent Crop Safety Profile: Research has shown that Quintec is **not harmful to vines**.

Existing Classes of Grape Fungicides

inorganic

Sulfur,
Copper

contacts

Oils, Soaps

sterol inhibitors — 1980s

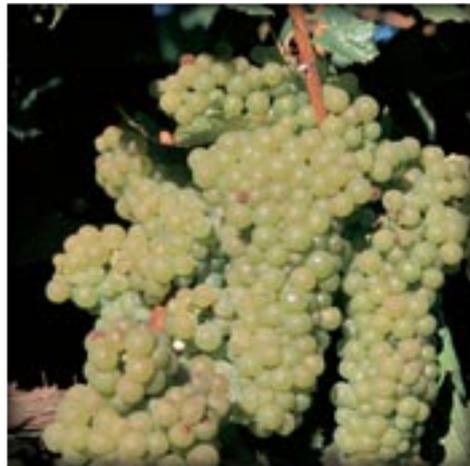
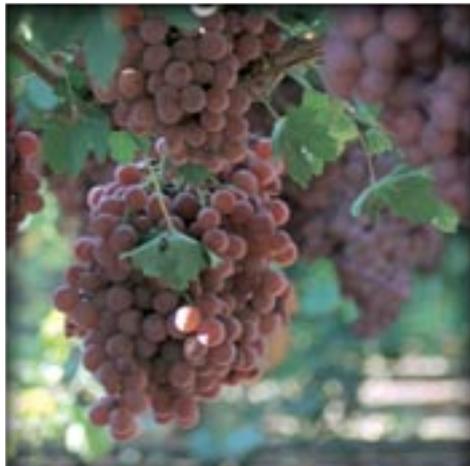
Rally, Procure,
Rubigan, Elite

strobilurins — 1990s

Sovran,
Flint, Abound
Pristine

quinolines — 2000s

Quintec



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