

UPL GRAPE PORTFOLIO

Innovative solutions that deliver maximum performance and value

At UPL, our portfolio of innovative solutions for the grape market is growing. Our goal is to always provide broader choice and greater value, with advanced products and customized solutions to meet the needs of each grower. We invite you to review our expanded portfolio of proven fungicides, insecticides, miticides, herbicides and biocontrol products that deliver exceptional performance and value.

CUPROFIX® ULTRA 40 DISPERSS®

CUPROFIX ULTRA 40 DISPERSS Fungicide (FRAC M1) is a fixed copper sulfate option for control of powdery mildew and *Phomopsis*. Its unique DISPERSS formulation easily and completely mixes in the tank, allowing for more consistent and greater surface contact. For broad-spectrum control, CUPROFIX ULTRA 40 DISPERSS can be conveniently tank mixed with other labeled fungicides.

ELEVATE®

ELEVATE Fungicide (FRAC 17) provides locally systemic activity and is excellent at controlling *Botrytis* bunch rot and powdery mildew. ELEVATE can provide post-infection activity when applied early in the disease life cycle and has been shown to enhance the efficacy of other fungicides when used in a powdery mildew spray program. With a 0-day pre-harvest interval, you can use ELEVATE up to the day of harvest.

MANZATE® PRO-STICK™

MANZATE PRO-STICK Fungicide (FRAC M3) provides advanced formulation technology in the fight against key diseases such as dead arm and downy mildew. A market-leading, multi-site, protectant fungicide, MANZATE PRO-STICK has effectively been used for decades without a reported incidence of resistance, making it a standard in almost any disease management program.

MICROTHIOL® DISPERSS®

MICROTHIOL DISPERSS Fungicide (FRAC M2) combines sulfur and science to deliver excellent efficacy in a superior formulation for powdery mildew. MICROTHIOL DISPERSS also provides the added benefit of mite control. A patented micronized formulation process ensures a more consistent spray coverage and greater surface contact than other sulfur products.

PH-D®

PH-D Fungicide (FRAC 19) is a broad-spectrum fungicide that offers a high degree of powdery mildew and *Botrytis* control in grapes. Its benefit of a 0-day pre-harvest interval and 4-hour REI make it an excellent option for disease management sprays close to harvest. PH-D is the only product in FRAC Group 19, making it an important resistance management tool.

PROCURE®

PROCURE Fungicide (FRAC 3) is rated as one of the highest for powdery mildew control. PROCURE has both protective and curative efficacies in controlling diseases, as well as systemic activity in the plant. When applied in a powdery mildew spray schedule, PROCURE will enhance the activity of registered fungicides used for *Botrytis* bunch rot control. Also available under the brand name TRIONIC Fungicide in a larger pack size.

TOPSIN® M WSB

TOPSIN M WSB Fungicide (FRAC M1) is your go-to brand if *Eutypa* dieback is your disease concern. TOPSIN is a systemic fungicide that moves from top to bottom, and upward and outward within the leaves and stem. It is recommended TOPSIN be rotated with fungicides in different FRAC groups. Use of TOPSIN M WSB for *Eutypa* dieback is approved for use under specific state local need labels.



ZIRAM® 76DF

ZIRAM 76DF Fungicide (FRAC M3) is a multi-site fungicide used for powdery mildew and *Phomopsis* control. ZIRAM 76DF is a high-quality, non-phytotoxic formulation with excellent tank-mix characteristics designed to expand your disease control spectrum even further.

ASSAIL®

ASSAIL Insecticide (IRAC 4A) is an effective broad-spectrum option when mealybug, leafhopper, thrips, aphid and/or whitefly is what you are seeking to control. With chlorpyrifos moving out of the California market, ASSAIL is a perfect addition to your mealybug program. The translaminar activity of ASSAIL provides weeks of residual control to your insect management program.

ACRAMITE®

ACRAMITE Miticide (IRAC 20D) is the cornerstone of your season-long mite protection plan. With the power to attack spider mites at all life stages, and with more than 15 years of real-world results, ACRAMITE is an important tool in your rotation. It offers quick knockdown and long residual control of mites, while going easy on predator mites and beneficials, as well.

BIFENTURE® 10 DF

BIFENTURE 10 DF Insecticide (IRAC 3A) is one of the most widely used insecticide/miticide products on the market — a second-generation pyrethroid that offers a level of quality, consistency and effectiveness at an economical cost per acre. With its excellent contact and residual activity, BIFENTURE controls a wide spectrum of insects and mites in grapes, including Japanese beetles and two-spotted spider mites.

KANEMITE®

KANEMITE Miticide (IRAC 20B) offers exceptional control, rapid knockdown and long-lasting residual activity on two-spotted spider, European red and Pacific mites while going easy on predator mites and beneficials. Additionally, its unique active ingredient, acequinocyl, makes KANEMITE an ideal member of your resistance management program.

OMITE®

OMITE Miticide (IRAC 12C) offers swift relief from mites using a unique active ingredient and fuming action. It provides fast and powerful knockdown of a wide range of mites at all life stages while allowing for great coverage everywhere these pests like to hide. OMITE is also rainfast for lasting control and is an excellent rescue treatment throughout the year and especially toward the end of the season.

VIGILANT®

VIGILANT Miticide (IRAC 20D) provides outstanding protection from spider mites at all stages. It has a short 14-day pre-harvest interval for grapes and a reputation for going easy on predator mites and beneficial insects. For most programs, it can be used throughout the season whenever spider mites are present and populations begin to build, offering a solution that seamlessly fits within the framework of your integrated pest management regimen.

ZYLO®

ZYLO Insecticide (IRAC 18) provides superior control of damaging lepidoptera pests in grapes. Key insects controlled include leafrollers, grape berry moth, European grapevine moth, plus others. As an insect growth regulator, ZYLO won't disrupt beneficial insects, mites or pollinators in many crops.

LIFELINE®

LIFELINE Herbicide (HRAC 10) is a non-selective, post-emergent herbicide that provides broad-spectrum control of some of the most challenging weeds, including glyphosate-resistant marehail, hairy fleabane, malva and filaree. Using a unique mode of action, LIFELINE inhibits glutamine production in the weeds which leads to a breakdown in photosynthesis. This makes LIFELINE an excellent choice when developing your overall weed resistance management strategy.

SATELLITE® HYDROCAP

SATELLITE HydroCap Herbicide (HRAC 3) provides a valuable option in pre-emergent weed control. Our newly developed and patent-pending encapsulation method provides a stable formulation for improved shelf life and excellent mixing characteristics. SATELLITE delivers excellent control of grasses and troublesome small-seeded broadleaf weeds such as pigweed, lambsquarter, waterhemp and velvetleaf before they even emerge.

RIO®

RIO is an EPA-registered plant growth stimulant based on proprietary plant extracts and nutrients designed to improve plant reproductive growth. This results in increased yields and improved grape quality.

VACCIPLANT®

VACCIPLANT Plant Defense Stimulant uses active biological compounds to stimulate fruit crops' natural defense mechanisms to boost disease resistance, plant health and yields. VACCIPLANT is shown to improve a plant's internal disease resistance against powdery mildew and other diseases.

For more information about the portfolio of solutions for grapes, talk to your consultant, your local UPL representative or retailer, call **1-866-761-9397** or visit **upl-ltd.com/us**.



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