

# LIVE 2010 Chemistries Bulletin

April 9<sup>th</sup> 2010



## MAJOR CHANGES TO BOTRYTIS CONTROLS

### Copper

- Status: *Allowed by LIVE as a fungicide under 3lbs/acre/year with conditions.*

Copper has been proven to be highly toxic to salmon and other aquatics. Its use as a fungicide has been shown to be only slightly effective. Its use must be justified for LIVE certification. It must be shown that no safer alternative exists, and that risk to waterways is negligible. Justification may include the wish to obtain other certifications that prohibit synthetic chemistries. The limit for 2010 will remain 3lbs/acre/year active ingredient to accommodate members who are determined to show justification for its use as a fungicide. There are many formulations of copper available to the grape grower. Copper hydroxide, copper sulfate, copper octanoate and copper oxide are the most common. Please use the percent active ingredient on the label of the product you choose to ensure you are under the 3lb/acre/year maximum rate.

Furthermore, many Willamette Valley vineyards show true copper deficiencies discovered through soil and tissue analyses. A vineyard deficient in copper may apply this element as a nutrient via a soil or foliar application. Copper applied as a nutrient must be reported on the LIVE Fertilizer Reporting Form separate from Copper applied as a fungicide. If applied as both, record this only once in the more appropriate location. Copper applications as nutrients are PROHIBITED without soil and tissue tests as justification.

## MAJOR CHANGES TO MITE, POWDERY MILDEW AND BOTRYTIS CONTROLS

### Lime Sulfur

- Status: *Not allowed by LIVE since 2009*

Lime sulfur was removed from the LIVE Yellow List of Approved Pesticides in 2009. This material will remain prohibited in 2010 due to its harsh and aggressive general control properties to all and target and non-targeted insect biologies. Micronized sulfur will continue to be allowed as it shows equal efficacy when applied under proper conditions. Also allowed for early season use will be two applications of Paraffinic Oil when temperatures are too low for effective sulfur volatilization.

### Paraffinic Oil

- Status: *Allowed by LIVE*

Products such as JMS Stylet Oil or Pure Spray Green are light horticultural oils and have been added to the list of control measures allowed for early season rust and bud mite control. This does not include heavier crop oils such as Supreme Spray Oil, etc. Micronized sulfur has shown to be less effective at cooler

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temperatures. During wooly bud and bud break, when outdoor daytime high temperatures below 65 degrees F, the use of these oils in place of sulfur is potentially a more effective choice of yellow list control.

## MAJOR CHANGES TO LEAFHOPPER, MEALYBUG/LEAFROLL VIRUS COMPLEX CONTROLS for LIVE REGION II

### Thiamethoxam, Dinotefuran, Spirotetramat

- Status: *Newly allowed under heavy restrictions*

These chemistries have been added to the *2010 LIVE Yellow List of Approved Pesticides for Region II*, to give growers additional options. Should cultural controls and Buprofezin prove to be ineffective measures for leafhopper, these chemistries may be used.

Furthermore, to use any chemistries for mealybug/Leafroll, the member must perform monitoring to **clearly document** that the virus and vector are in or near the vineyard.

Finally, Spirotetramat is allowed for use until existing inventories run out. The EPA has issued a cancellation of this product's registration. See: <http://www.epa.gov/opprd001/factsheets/spirotetramat-final-cancl-order.pdf>.

## MAJOR CHANGES TO WEED CONTROLS

### Rimsulfuron

- Status: *Newly allowed by LIVE under restrictions*

The addition of Rimsulfuron (Matix<sup>TM</sup>) herbicide has been added to the list of herbicides for use in ESTABLISHING YOUNG VINEYARDS ONLY. Vineyards 5 years and older are NOT allowed the use of this product.

## OTHER CHANGES FOR 2010

Other updates, such as additional toxicity information detail, have been made to the *2010 LIVE Yellow List of Approved Pesticides* and members will be responsible for awareness of these changes as publication is hereby announced with this bulletin.