



42 SPF for Sunscreen for Produce

Produce in the field is extremely susceptible to sun damage. An estimated 20-40% of produce in orchards may be damaged as a result of sunburn, and the problem continues to rise with global warming. With Eclipse, a newly engineered thin film sunshield, growers can reduce sunburn damage up to 90%, which significantly reduces product losses and increases returns.

Highlights

- Submicron particle sizes
 - Product stays in suspension during spraying to give a uniform coat of protection from the bottom to the top of the tree.
- Easy to store, mix and spray
 - The proprietary liquid formulation will not settle out and provides a consistent concentration of product through the entire tank.
- Compatible with most other spray applications
 - Eclipse is compatible and can be mixed with most chemicals, which will help to improve returns by decreasing orchard trips.
- Easy to remove
 - Tests have proven that with standard brushes, Eclipse leaves no residue before waxing.
- Enables natural coloring and photosynthesis
 - Specific light wavelengths needed for plant health are not blocked by Eclipse - the harmful spectrum of natural light is blocked.

Proven



Eclipse is a calcium carbonate and boron colloidal liquid that has been proven effective in the control of sunburn on produce. Eclipse is sprayed directly on the produce surface throughout the season to build a protective coating that blocks harmful UV light, without decreasing photosynthesis.

Using Eclipse, growers have observed higher pack-outs, larger produce, better color and earlier harvest dates.

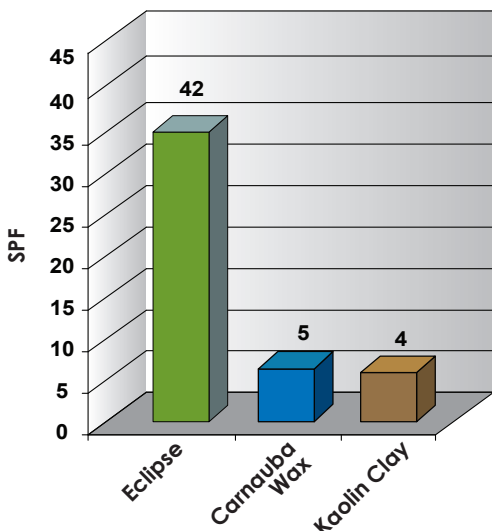
Economical

Eclipse can be sprayed at the same time with most other chemicals, saving time and orchard trips. The solution quickly tank mixes with minimal agitation, and with its small particle size, Eclipse stays in suspension during spraying to give a uniform coat of protection from the bottom to the top of the tree.

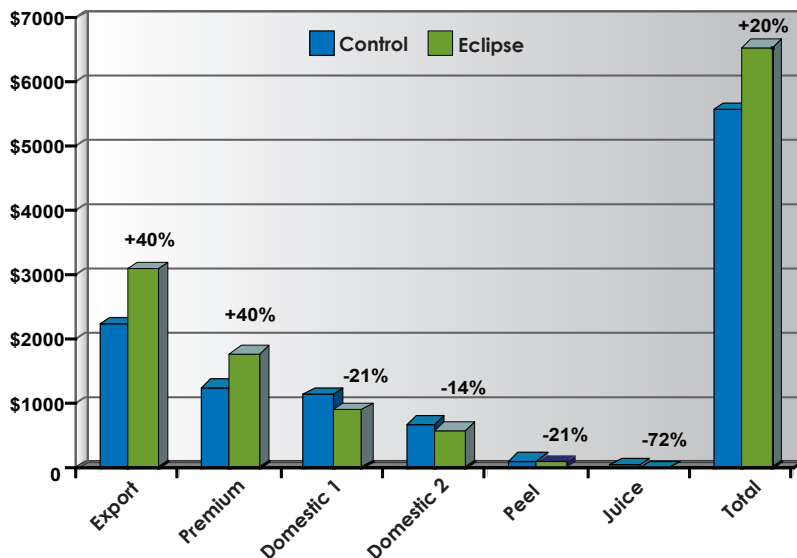
Safe

With Eclipse's food grade calcium carbonate structure, it can be applied anytime during the growing season. Application for organic pending.

Impact of Proprietary Liquid Structure



Eclipse Total Pack Out Value Added



Recommended Applications

General Application Guidelines

To protect most crops, four to six applications of Eclipse during the growing season are recommended. Additional applications may be required under conditions of persistent high temperature, increased UV exposure, rain or other circumstances that may deteriorate the coverage of the crop.

Pome Fruit and Citrus

Eclipse should first be applied when the fruit is 3/4" or 19 mm at a rate of 3 gallons/acre in 100 gallons of water or less as long as thorough coverage of the fruit is achieved. The second application should be applied 8 to 9 days later at a rate of 2.5 gallons/acre in 100 gallons of water or sufficient water to ensure thorough coverage.

Subsequent applications of Eclipse should be made at 2-3 week intervals, or as needed to maintain coverage of the fruit, at a rate of 2.5 gallons/acre in 100 gallons of water or sufficient water to ensure thorough coverage.

Tree Nuts, Olives, and Figs

Eclipse should first be applied when the fruiting bodies are 5/8 mm. Similar rates and application timing as in pome fruit and citrus should be followed.

Onions, Garlic and Potatoes

Ground Application: Applying Eclipse at a rate of 3 gallons/acre in 50 gallons of water after the "burn down" of the foliage is beneficial in limiting sun damage to the exposed portion of the plant.

Aerial Application: Applying Eclipse at a rate of 3 gallons/acre in 10 gallons of water is beneficial to protect exposed onions, garlic and potatoes from sun damage. If the crop is dried above the ground surface, Eclipse should be immediately applied to the exposed crop after removal from the soil. A reapplication of Eclipse is recommended 3-4 days after the initial application at a rate of 3 gallons/acre in 10 gallons of water.

Forestry Nursery Stock

Application of Eclipse at a rate of 10 gallons in 100 gallons of water per acre directly to nursery foliage before intense solar exposure (May 1 in North America) is beneficial in protecting the plant from stress. Additional applications should be applied at 30 day intervals at a rate of 5 gallons in 100 gallons of water to the acre. Immediately before transplanting, nursery stock can also be treated with a 10% solution of Eclipse to lessen the effects of heat stress.

Post Harvest Removal of Eclipse

It is generally accepted that Eclipse can be removed on a commercial packing line that includes a water filled dump tank with a Ph of 5.5 or less and a brush section for agitation. During and after agitation a fresh water rinse is recommended prior to any pre-packaging application of wax and/or fungicides.

Notice: This bulletin is not intended to provide adequate information for use of this product. Before using this product, read and carefully observe the precautionary statements, directions for use, restrictions and all pertinent information on the label.



Novazone, Inc.
2575 Collier Canyon Road
Livermore, CA 94551

877-NOV-0303 x324
Phone: 925-454-0303 x324
Fax: 925-454-0333

eclipse@novazone.com
www.novazone.com