

# **NUT, POME AND STONE FRUIT CROPS (PECAN) - FOR INCREASING FRUIT AND NUT SET**

## General Information

### GENERAL INFORMATION FOR USE

**IMPORTANT:** Before application, read all use directions thoroughly. Use ReTain only as directed. For specific information on the best use practices for your location, consult with your Valent Agricultural Specialist (1-800-6-VALENT).

ReTain contains 15% (wt/wt) [S]-trans-2-amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride, commonly known as aminoethoxyvinylglycine, aviglycine HCl, or AVG HCl. AVG HCl is a potent plant growth regulator produced by fermentation. AVG HCl inhibits the production of ethylene in plant tissues. Ethylene affects plant processes such as flower development, fruit set, fruit maturation, fruit ripening, and fruit abscission.

### GENERAL APPLICATION INSTRUCTIONS

#### **IMPORTANT:**

- Do not apply this product through any type of irrigation system.
- ReTain is packaged in a water-soluble bag sealed inside a metallized polyester pouch. Each water-soluble bag contains 11.7 oz (333 grams) of ReTain. Once the outer pouch is opened, the entire water-soluble bag must be used.
- Because the proper timing of ReTain application is particularly important to product performance, serious consideration is to be given, on a block-by-block basis, to any site conditions (e.g., elevation, sun exposure, soil texture), growing condition(s) (e.g., prevailing or anticipated weather patterns such as high temperature, chilling, drought or flood conditions, nutrient levels) or production practices (e.g., crop load, pruning severity) that could impact flowering, fruit set, or fruit maturation during the course of the season.
- On tree crops and cucumbers, apply ReTain in a sufficient amount of water to ensure that flowers, fruits, and foliage receive thorough spray coverage using calibrated spray equipment. Adjust water volumes based on plant size and spacing. However, excessive spray application volumes resulting in spray runoff will reduce product efficacy.

- Prepare spray solution by mixing the required amount of product with water in a clean, empty spray tank. Dispose of any unused spray material at the end of each day.
- Avoid applications during the heat of the day. For best results, apply ReTain under slow drying conditions, e.g. early in the morning or at night, in order to maximize adequate absorption.
- Maintain solution pH between 6 and 8.
- For apple, pear, stone fruit, walnut, pecan and cucumber, do not apply ReTain to plants or fruit under stress (e.g., heat, water, disease, insect). Injured or stressed plants or fruits may not respond to ReTain.
- Do not use overhead cooling or irrigation equipment for at least 8 hours following ReTain application.
- Do not apply ReTain if rain is expected within 8 hours of application.

## COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

ReTain can be tankmixed with DiPel®, Biobit®, and XenTari® biological insecticides. Compatibility and performance data for ReTain with other agricultural products are not available.

Do not tank mix ReTain with other products unless compatibility has been verified. If considering tank mixing ReTain with other products use the following compatibility jar test before mixing a whole tank:

Add water from the same water source to a clear glass or plastic jar. Add the pesticides in correct proportions. Mix thoroughly and let stand for a minimum 15 minutes. Separation, gelling, or generation of heat are all signs of incompatibility.

Even if a mix passes the jar test for compatibility, it is imperative to test it on a designated area to evaluate for phytotoxicity or ineffectiveness.

Always read and follow all label directions and precautions of each product. When using combinations of products the most restrictive of label limitations and precautions must be followed. Do not mix with any pesticide that has a prohibition against tank mixing. For further information consult your ValentAgricultural Specialist (1-800-6 VALENT).

Limitations, Restrictions, and Exceptions

## NUT, POME AND STONE FRUIT CROPS - FOR INCREASING FRUIT AND NUT SET

### OBJECTIVE/BENEFIT

To increase nut set in cultivars that experience low set.

### APPLICATION TIMING/USE INSTRUCTIONS

- Apply one to two pouches of ReTain per acre within 2 weeks after the surface of most of the stigma (apical end of the pistil) are no longer moist enough to retain pollen or dust.
- Use higher rates on cultivars/orchards that have experienced lower nut set. Applications made either too early (pre-bloom) or too late (after full bloom) will reduce the efficacy of the treatment.

### Important

- For apple and pear, do not apply more than one pouch for increasing fruit set. Do not use more than one pouch for harvest management and improvement of fruit quality. Do not apply more than 2 pouches of ReTain per acre per year.
- For sweet cherry, do not apply more than one pouch for increasing fruit set. Do not apply ReTain to sweet cherry trees when fruit are present.
- For pecan and walnut, do not apply more than 2 pouches of ReTain per acre per year.

Water Volume: ReTain efficacy requires that flower buds and flowers receive thorough spray coverage. To ensure thorough coverage use calibrated spray equipment (i.e. air blast sprayer) and adjust water volumes based on tree size and spacing. Use sufficient water volume to achieve thorough coverage without excessive runoff. In most cases, a spray volume of 100 to 200 gallons per acre has been shown to be effective.

Use of Adjuvants: Use of adjuvants with ReTain for bloom applications has not been fully researched. Some adjuvants will cause a bloom thinning effect and will reduce the benefits of ReTain.

### Method

[Spray](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

12 hours

Timings

Two weeks after the surface of most of the stigma (apical end of the pistil) are no longer moist enough to retain pollen or dust.