

9-MAR-2005

16-MAR-2007 - Allergen statement updated.

ReTain

Plant Growth Regulator

Soluble Powder

COMMERCIAL

For use in commercial orchards only

READ THE LABEL BEFORE USING



CAUTION POISON

POTENTIAL SKIN SENSITIZER

KEEP OUT OF REACH OF CHILDREN

GUARANTEE: Aminoethoxyvinylglycine hydrochloride 15 %  
Warning, contains the allergen milk.

**Update**

REGISTRATION NO.: 25609 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 333 grams (11.7 ounces)

The water soluble bag must not be sold separately.

Registrant

Valent BioSciences Corporation

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USA

Canadian Agent

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DIRECTIONS FOR USE

General Information

Note: Aminoethoxyvinylglycine hydrochloride is an extremely potent plant growth regulator. For best results, read all directions for use thoroughly. Consult your local Valent BioSciences Corporation specialist for the spray schedule best suited to your conditions. Use only as directed. The label should be read thoroughly and understood before making applications. Product efficacy requires that all parts of the plant or crop receive uniform spray coverage or else the desired result may not occur. Consult your local Valent specialist for specific information for your region.

ReTain Plant Growth Regulator, which contains 15% Aminoethoxyvinylglycine hydrochloride, has been shown to be an effective preharvest drop control agent for apples when applied 4 weeks prior to the anticipated beginning of the normal harvest period (the normal harvest period for a particular block refers to that time when fruit not treated with ReTain Plant Growth Regulator would be harvested for long term storage). ReTain Plant Growth Regulator may also delay fruit maturity, help maintain fruit quality (e.g. firmness), and may reduce the incidence and/or severity of watercore. The active ingredient in ReTain Plant Growth Regulator is a fermentation metabolite that inhibits the endogenous production of ethylene in treated plant tissues.

#### Application Instructions:

Do not apply this product through any type of irrigation system. Use 333 grams (11.7 ounces) of ReTain Plant Growth Regulator (one pouch) per 0.4 hectare (1 acre) 4 weeks prior to the anticipated beginning of the normal harvest period. Apply ReTain Plant Growth Regulator in sufficient volume to ensure thorough, but not excessive, coverage. Use calibrated spray equipment to ensure uniform coverage of leaves and fruit. The addition of Sylgard<sup>®</sup> 309 at 0.05-0.1% by volume to the spray mixture may improve spray coverage and enhance absorption. When high temperature [in excess of 32EC (90EF)] weather conditions prevail or are anticipated, the 0.05% v/v concentration is recommended. Do not exceed 0.1% v/v. To reduce foaming, add surfactant last and avoid vigorous agitation. Discard any unused spray material at the end of each day. Prepare spray solution by mixing the required amount of product with water in a clean, empty spray tank.

Do not apply during periods of dead calm or when winds are gusty. Do not overspray non-target terrestrial or aquatic habitats. Do not contaminate aquatic habitats when cleaning and rinsing spray equipment or containers.

Airblast application: Do not direct spray above plants to be treated and turn off outward pointing nozzles at row ends and outer rows. Do not apply when wind speed is greater than 16 km/hr at the application site as measured outside of the treatment area on the upwind side.

A buffer of 4 metres (late season) is required between the downwind point of direct application and the closest edge of sensitive aquatic habitats such as lakes, rivers, sloughs, ponds, coulees, prairie potholes, creeks, marshes, streams, reservoirs, and wetlands and estuarine/marine habitats.

#### SPECIAL CONSIDERATION:

Apply when drying conditions are slower in order to ensure adequate absorption, such as early in the morning or late in the afternoon. Do not apply when rainfall is forecast within the next 8 hours. Do not re-enter the treated area for 3 days following application of ReTain Plant Growth Regulator.

NOTE: Because the proper timing of ReTain Plant Growth Regulator application is particularly important to product performance, consideration should be given, on a block-by-block basis, to any growing condition(s) (e.g., prevailing weather patterns, such as high heat or drought conditions, nutrient levels) or production practice(s) (e.g., pruning severity) that could accelerate or delay fruit maturation during the course of a season.

#### PRECAUTIONS:

##### KEEP OUT OF THE REACH OF CHILDREN.

Harmful if inhaled. Avoid breathing spray mist. Apply only when the potential for drift to areas of human habitation or areas of human activity such as houses, cottages, schools and recreational areas is minimal. Take into consideration wind speed, wind direction, temperature, application equipment and sprayer settings. Remove contaminated clothing and wash clothing before reuse. Wear the following personal protective equipment during mixing, loading, application, clean-up, and repair activities: chemical resistant gloves, coveralls over one layer of clothing, shoes and socks. Summer pruning is not to be performed after the application of ReTain Plant Growth Regulator. Do not feed wet or dry apple pomace from ReTain Plant Growth Regulator-treated apples to livestock. This product is toxic to avian and mammalian wildlife. ReTain Plant Growth Regulator may affect flowering in non-target vegetation. Seed, nut and fruit production, and maturation in plants in wildlife habitat may also be affected. Avoid drift to these areas. The effect of ReTain Plant Growth Regulator on beneficial non-target insects has not been assessed, hence, the potential impact of this product on IPM systems in orchards is unknown.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., contact 1-866-375-4648 or [www.corpro.org/](http://www.corpro.org/).

**Do not apply by air. Do not apply to trees under stress due to factors such as insects, heat, water, disease, or poor nutrition, as ReTain Plant Growth Regulator benefits may be reduced, injured or stressed fruits may not respond to ReTain Plant Growth Regulator.**

#### FIRST AID:

**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention or contact a poison control center.

**In case of contact with eyes or skin:** Immediately flush with plenty of water. If irritation persists, get medical attention.

**If swallowed:** Induce vomiting immediately, and seek emergency care with physician immediately or contact a poison control center.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

#### TOXICOLOGICAL INFORMATION:

Remove from source of exposure and treat symptomatically. No known antidote. Pre-existing eye ailment may be aggravated.

**ENVIRONMENTAL HAZARDS:**

Observe buffer zones specified under Directions for Use.

This product is toxic to aquatic organisms.

**DISPOSAL:**

Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For information on the disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

**EXTRA HANDLING AND STORAGE PRECAUTION FOR WATER SOLUBLE BAGS:**

Do not puncture outer bag. Do not handle water soluble bags with wet hands or gloves. Avoid freezing the water soluble bags.

**NOTICE TO USER:**

This control product is to be used only in accordance with the directions on this label. It is an offense under the PEST CONTROL PRODUCTS ACT to use a control product under unsafe conditions.

**NOTICE TO BUYER:**

Seller's guarantee shall be limited to the terms set out on the label and, subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

ReTain<sup>®</sup> Plant Growth Regulator is a registered trademark of Valent BioSciences Corporation.

Sylgard<sup>®</sup> 309 is a registered trademark of Dow Corning Corporation.

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