

**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:

Aviglycine hydrochloride.....15.0%

Warning, contains the allergen milk

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

870 Technology Way

Libertyville, Illinois 60048

USA

1-800-323-9597

Canadian Agent:

Valent Canada, Inc.

6-130 Research Lane

Guelph, Ontario N1G 5G3

## DIRECTIONS FOR USE

### General Information

Note: Aviglycine 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% Aviglycine 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® 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.

As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.

**DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Airblast application: **DO NOT** apply during periods of dead calm. Avoid application of this product when winds are gusty. **DO NOT** direct spray above plants to be treated. Turn off outward pointing nozzles at row ends and outer rows. **DO NOT** apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**DO NOT** apply by air

**BUFFER ZONE:**

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.

**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 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. Do not enter or allow worker entry during the restricted entry interval (REI) of 12 hours after application. Do not feed wet or dry apple pomace from ReTain Plant Growth Regulator-treated apples to livestock. 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., visit CropLife Canada's website at [www.croplife.ca](http://www.croplife.ca).

**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 swallowed:** Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**If inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

**If in eyes:** Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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:

Toxic to birds and small wild mammals.

Toxic to aquatic organisms. Observe buffer zones specified under DIRECTIONS FOR USE.

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.

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay. Avoid application when heavy rain is forecast. Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

#### STORAGE:

To prevent contamination store this product away from food or feed.

#### DISPOSAL:

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, 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 pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

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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