



List No. 33702-04-02



Department of Agriculture
STATE OF HAWAII

LICENSED

ACTIVE INGREDIENT:

[S]-trans-2-Amino-4-(2-aminoethoxy)-3-butenoic acid hydrochloride	20.0%
OTHER INGREDIENTS.....	80.0%
TOTAL	100.0%

PLEASE SEE ATTACHED APPLICATION
GUIDE FOR COMPLETE PRECAUTIONARY
STATEMENTS AND DIRECTIONS FOR USE

PERIOD **2015-2017** LIC. NO.

8187.38

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Registrant:

Net Contents: 1 Quart (946 mL)



Department of Agriculture
STATE OF HAWAII

LICENSED

Lot No.: #####

PERIOD **2012-2014** LIC. NO.

EPA Registration No.: 73049-488
EPA Establishment No.: 33762-IA-001

04-7277/R1

04-0000/R3



ACTIVE INGREDIENT:

[S]-*trans*-2-Amino-4-(2-aminoethoxy)-3-butenic acid hydrochloride 20.0% w/w

OTHER INGREDIENTS 80.0% w/w

TOTAL 100.0% w/w

8187.38



**KEEP OUT OF REACH OF CHILDREN
CAUTION**

EPA Reg. No.: 73049-468
EPA Est. No.: 33762-IA-001

**PLEASE SEE ATTACHED APPLICATION GUIDE FOR
COMPLETE PRECAUTIONARY STATEMENTS AND
DIRECTIONS FOR USE**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

FIRST AID	
If inhaled:	<ul style="list-style-type: none"> • 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 center or doctor for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-892-0099 (24 hours) for emergency medical treatment and/or transport emergency information. For all other information, call 1-800-6-VALENT (682-5368).	

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to Supplemental Labeling under "AGRICULTURAL USE REQUIREMENTS" in the DIRECTIONS FOR USE section for information about this standard.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Waterproof gloves

Hand-wand applicators must wear dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C), or a NIOSH approved respirator with N, R, P, or HE filter when applying this product.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses: Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this labeling about Personal Protective Equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

GENERAL INFORMATION FOR USE

IMPORTANT: Before application, read all use directions thoroughly. Use PinCor™ only as directed.

PinCor contains 20% (wt/wt) [S]-*trans*-2-amino-4-(2-aminoethoxy)-3-butenic 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

- Do not apply this product through any type of irrigation system.
- Because the proper timing of PinCor 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.
- For walnuts, pecans and cucumbers, apply PinCor in a sufficient amount of water to ensure good coverage of the tree or crop canopy. Product efficacy requires that flowers, fruits, and foliage receive thorough spray coverage. Use calibrated spray equipment to ensure uniform coverage of flowers, fruit, and foliage. Adjust

water volumes based on plant size and spacing. Excessive spray application volumes that result in spray runoff will reduce product performance.

- For pineapples, apply PinCor in a sufficient amount of water to ensure good coverage of the apex of the stem (plant core) of pre-flowering pineapples.
- 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 PinCor under slow drying conditions, e.g. early in the morning or at night, in order to maximize absorption.
- Maintain solution pH between 6 and 8.
- For walnuts, pecans and cucumbers, do not apply PinCor to plants under stress (e.g. heat, water, disease, insect). Injured or stressed plants may not respond to PinCor.
- In the case of pineapples, however, PinCor may be applied to plants under stress conditions that induce Natural Induction of flowering in pineapple, also known as Naturally Differentiated Flowering.
- Do not use overhead cooling or irrigation equipment for at least 8 hours following PinCor application.
- Do not apply PinCor if rain is expected within 8 hours of application.

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

Compatibility and performance data for PinCor with agricultural products are not available. Do not tank mix PinCor with other products unless compatibility has been verified.

If considering tank mixing PinCor 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 both phytotoxicity and poor or efficacy.

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 Valent agricultural specialist.

PINEAPPLE

CROP	OBJECTIVE / BENEFIT	APPLICATION TIMING/ USE INSTRUCTIONS
Pineapple	Reduce the incidence of Natural Induction (NI) of flowering in pineapple, also known as Naturally Differentiated Flowering (NDF) and commonly known as "kicking over". Reduction of NDF allows for artificial induction of flowers (forcing) at the appropriate plant maturity to give more uniform flowering and consequently more uniform fruit maturity. Consult your Valent Specialist for specific information on the best use practices.	Apply 16 to 24 fl oz. (473 ml to 710 ml) of PinCor (95 - 142.5 grams AVG HCL) per acre directing the spray pattern toward the apex of the stem (plant core) of pre-flowering pineapples. Make the first application of PinCor 7 days prior to the first anticipated occurrence of conditions that favor NDF, typically in early November, near week 45. Make subsequent applications at 7 day intervals. Apply no more than 23 pints of PinCor (2200 grams AVG HCL) per acre per crop of pineapples. Conditions that favor NDF in pineapple include: <ul style="list-style-type: none"> • cool temperatures (< 68°F); • short photoperiod (< 12 hr); • prolonged overcast and rainy weather; • pre-flowering plant weights greater than 3.0 kg. Make the last application of PinCor per growing cycle prior to artificial induction of flowers (forcing).

PINEAPPLE (Cont'd)

Water Volume: PinCor efficacy requires that the plant core receive thorough spray coverage. Insufficient spray application volumes or uneven application patterns will reduce product performance. Spray volumes of 185 to 250 gallons per acre have been shown to be most effective.

Adjuvants: PinCor may be used with Break-Thru®, RNA Si 100, Silwet L-77®, or Sylgard® 309 organosilicone surfactants at a final surfactant concentration of 0.05 - 0.1% (v/v). To reduce foaming, add the adjuvant last and minimize agitation.

IMPORTANT:

- Apply PinCor to pineapple plants only prior to initiation of flowering. Applying PinCor to pineapples that have undergone NDF may result in malformed fruit.
 - Do not spray onto pineapple plants that are in bloom or have fruit.
 - Do not allow spray to drift onto pineapple plants that are in bloom or have fruit.
 - Do not apply PinCor to pineapples if chilling and other conditions that favor NDF have occurred prior to first scheduled application.
 - Once the first application of PinCor has been made, continued control of NDF by PinCor will require additional applications during the entire period of susceptibility to NDF up to 7 days prior to the time of forcing.
 - If more than 7 days have elapsed since the previous PinCor application, pineapples will again become susceptible to NDF even if previously treated with PinCor.
 - If a chilling event or other conditions that favor NDF have occurred later than 7 days from the previous application, but before subsequent PinCor applications can be made, no further applications of PinCor should be made to avoid the occurrence of malformed fruit.
- Combination effects and potential interactions between PinCor and agricultural products have not been thoroughly tested. Tank-mixing PinCor with other agricultural products may reduce the efficacy of PinCor.
- PinCor requires a 6 hour rain-free period after application.

NUT CROPS

CROP	OBJECTIVE / BENEFIT	APPLICATION TIMING/ USE INSTRUCTIONS
Walnut	Increased nut set in cultivars affected by pistillate flower abortion (PFA). Consult your local walnut tree specialist or Valent USA Agricultural Specialist (1-800-6-VALENT) for more information.	Apply 8.5 to 17 fl oz. (250 ml to 500 ml) of PinCor (50-100 grams AVG HCL)* per acre, as a single application, to trees when most pistillate flowers are receptive to pollination. In most cases, PinCor applications at 5 to 30 percent pistillate flower bloom have been shown to be effective. Applications made either too early (pre-bloom) or too late (full bloom or later) will significantly reduce efficacy of the treatment.
Pecan	To increase nut set in cultivars that experience low set in some years. Consult your local pecan tree specialist or Valent USA Agricultural Specialist (1-800-6-VALENT) for more information.	Apply 8.5 to 17 fl oz. (250 ml to 500 ml) of PinCor (50-100 grams AVG HCL)* per acre, as a single application during bloom time. Applications made either too early (pre-bloom) or too late (after full bloom) will reduce the efficacy of the treatment.

NUT CROPS (Cont'd)

Water Volume: PinCor 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 good coverage without excessive runoff. In most cases, 100 to 200 gallons spray volume per acre has been shown to be effective.

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

***Rate:** Use higher rates on cultivars/orchards that have experienced high incidences of poor nut set.

CUCUMBER (SEED PRODUCTION ONLY)

CUCUMBER (FOR GYNOECIOUS INBRED SEED PRODUCTION OR HYBRID SEED PRODUCTION WITH GYNOECIOUS POLLINATOR)

CROP	OBJECTIVE / BENEFIT	APPLICATION TIMING/ USE INSTRUCTIONS
Cucumber (Cucumis sativus) Gynoecious inbred breeding lines.	Promotion of staminate (male) flowers in gynoecious (female flowering) cucumber-breeding lines for the purpose of producing inbred and hybrid cucumber seed.	Apply PinCor directly to gynoecious plants to be converted. Make one to six applications of 250 ppm to 1000 ppm AVG HCL beginning at early first leaf stage through tenth leaf stage. Use the appropriate skip row technique to achieve desired sex ratio of plants.

Water Volume: Apply PinCor in a sufficient amount of water to ensure good coverage. In most cases, 27 to 54 gallons per treated acre will be sufficient. The application rate and frequency of application will depend on the sensitivity of the individual inbred line to PinCor. Transient leaf yellowing will occur at high rates. If unacceptable leaf yellowing is noted, use lower concentrations in subsequent applications.

Use of Adjuvants: Addition of an adjuvant to PinCor increases the likelihood of leaf yellowing in young cucumber plants.

Additional Note: Do not reapply PinCor within 24-hours of application. Use of PinCor on cucumber is for gynoecious breeding line and hybrid seed production only. Do not apply directly to, or allow spray to drift to cucumber crops grown for fresh or processed markets. Fruit from plants treated with PinCor is not to be used for human or animal consumption. Consult your local vegetable specialist or Valent USA Agricultural Specialist (1-800-6-VALENT) for more information.

Parts per million AVG HCL with varying volumes of spray solution volumes and PinCor, by crop					
Crop	Gallons of spray solution	fl oz PinCor	mL PinCor	Grams AVG HCL	ppm AVG HCL
Cucumber	13.5	8.5	250	50	1000
	27	8.5	250	50	500
	54	8.5	250	50	250
Pineapple	185	16	473	95	135
	185	24	710	142	203
	250	16	473	95	100
	250	24	710	142	150

Parts per million AVG HCL with varying volumes of spray solution volumes and PinCor, by crop (Cont'd)					
Walnut & Pecan	100	8.5	250	50	133
	100	17	500	100	266
	200	8.5	250	50	66
	200	17	500	100	133

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Pesticide Storage: Store product in a cool and dry place. Avoid extended storage conditions at temperatures above 25°C (77°F).

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling, if available. If recycling is not available puncture container and dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

NOTICE TO USER

Warranty and Disclaimer Statement: To the extent consistent with applicable law, seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the use of this product other than as indicated on the label. To the extent consistent with applicable law, user assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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Break-Thru® is a registered trademark of Goldschmidt Chemical Corporation.

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