



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Biopesticides and Pollution Prevention Division (7511P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

73049-517

Date of Issuance:

6/28/2021

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

ACCEDE
 PLANT GROWTH REGULATOR

Name and Address of Registrant (include ZIP Code):

Valent Biosciences, LLC
 870 Technology Way
 Libertyville IL 60048

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Andrew Bryceland, Team Leader
 Biochemical Pesticides Branch
 Biopesticides and Pollution Prevention Division (7511P)
 Office of Pesticide Programs

Date:

6/28/2021

2. Make the following labeling change before you release this product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 73049-517.”
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statements of Formula (CSFs):

- Basic CSF dated 07/19/2019
- Alternate CSF #1 dated 07/19/2019

Any CSFs other than those listed above are superseded.

If you have any questions, please contact Gina Burnett via email at burnett.gina@epa.gov.

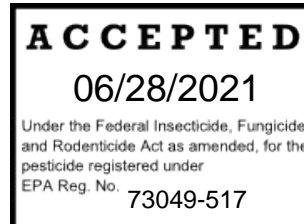
Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is written in a cursive, flowing style.

Andrew Bryceland, Team Leader
Biochemical Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)
Office of Pesticide Programs

[Text in brackets [] indicates optional language or language intended for explanatory purposes to facilitate label review. Thus, this language will often not appear on final printed labeling. Also, this page is present (page 1) to delineate sublabels and will not appear on the final printed labeling.]

ACCEDE
PLANT GROWTH REGULATOR
Liquid Concentrate



For Use on Apple and Stone Fruit

Active Ingredient:

1-aminocyclopropanecarboxylic acid (ACC)	10.0% w/w
Other Ingredients	90.0% w/w
Total	100.0% w/w

EPA Reg. No.
 Registrant: Valent BioSciences LLC
 870 Technology Way
 Libertyville, IL 60048
 1-800-6-VALENT

EPA Est. No.
 Distributor: Valent U.S.A. LLC
 P.O. Box 8025
 Walnut Creek, Calif. 94596

Net Volume:

Accede is a soluble liquid containing 13.35 oz. active ingredient 1-aminocyclopropanecarboxylic acid (ACC) in every 114 fl oz net content bottle

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID	
If swallowed	--Call a poison control center or doctor for treatment advice. -- Do not induce vomiting unless told to do so by a poison control center or doctor -- Do not give anything by mouth to an unconscious person
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.	

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

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.

Made in U.S.A.

APPLICATION GUIDE

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PLANT GROWTH REGULATOR
Liquid Concentrate**

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**KEEP OUT OF REACH OF CHILDREN
CAUTION**

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Avoid breathing spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Shoes plus socks

- Waterproof gloves

Follow 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

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 wash water 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/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 in 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

Accede Plant Growth Regulator Liquid Concentrate (hereafter referred to as Accede) contains 10.0% (wt/wt) 1-aminocyclopropanecarboxylic acid, commonly known as ACC. ACC is a potent plant growth regulator. ACC is a precursor for ethylene production in plant tissues. Ethylene affects plant processes such as flower development, fruit set, fruit maturation, fruit ripening, and fruit abscission.

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

GENERAL APPLICATION INSTRUCTIONS

IMPORTANT

- Do not apply this product through any type of irrigation system.
- Accede rate will depend on the amount of fruit thinning required. Product performance can be impacted by factors such as cultivar, prevailing and anticipated climactic conditions, tree vigor, fruit set potential and orchard history.
- Not all varieties and clones have been individually tested for crop safety under all environmental conditions and growing circumstances.
- On tree crops, apply Accede in sufficient 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 Accede under slow drying conditions, e.g. early in the morning or at night in order to maximize absorption.
- Maintain solution pH between 5 and 8.
- Do not apply Accede to injured or stressed plants or fruits e.g. drought stress, freeze injury, girdled trees, etc.
- Do not use overhead cooling or irrigation equipment for at least 8 hours following Accede application.
- Do not apply Accede if rain is expected within 8 hours of application.

COMPATIBILITY WITH OTHER AGRICULTURAL PRODUCTS

NOTICE: Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor, to the extent allowed by applicable law. Read and follow the entire label of each product to be used in the tank mix with this 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 (1-800-6 Valent).

APPLE – FOR FRUIT THINNING

CROP	OBJECTIVE / BENEFIT:	APPLICATION TIMING/ USE INSTRUCTIONS
<p>Apple</p>	<p>Depending on cultivar, orchard conditions, application timing, and grower objectives, one or more of the following benefits will be associated with Accede</p> <ul style="list-style-type: none"> • Fruit thinning • Enhanced return bloom 	<p>Apply 23 to 46 fl. oz Accede per acre (equivalent to 2.67 to 5.34 oz a.i. per acre or 200 to 400 ppm ACC assuming a spray volume of 100 gallons per acre) using sufficient spray volume to ensure complete tree coverage (refer to the dilution table for assistance).</p> <p>Accede can be applied in the period from full bloom until the average diameter of the king fruitlets is 25 mm. Accede is most active when king fruitlet diameter is 15-20 mm.</p>
<p>Note: Direct 80% of the spray into the upper 2/3rd of the tree canopy. Use higher rates in orchards that have a history of being difficult to thin, in varieties known to be difficult to thin, and in cool weather situations. Use Accede in a program with other thinning products. Consider reducing the rate of application if temperatures are expected to exceed 90°F on the day of application. Allow 7-10 days to observe the effect of any thinning product before making another application. For specific information on the best use practices for your location, consult with your Valent Agricultural Specialist (1-800-6-Valent).</p>		
<p>Water Volume: Accede efficacy requires that fruit and foliage receive thorough spray coverage. To ensure thorough coverage adjust water volumes based on tree size and spacing and use calibrated spray equipment (i.e. orchard air blast sprayer). Excessive spray application volumes that result in spray runoff will reduce product performance. In most cases, 100 gallons per acre has been shown to be effective.</p>		
<p>Adjuvants: Use of a non-ionic surfactant with Accede will improve performance and response.</p>		

Additional Notes:

- **Compatibility and performance data for Accede with other agricultural products are not available.**
- **Application of Accede to stressed trees or when temperatures are above 90 F may result in minor leaf yellowing or leaf drop.**
- **Do not apply Accede during bloom if there is a frost at this time. If frost occurs during bloom, wait until damage to flowers and buds can be assessed to determine if application of Accede is needed for additional thinning.**

STONE FRUIT CROP GROUP 12 – FOR FRUIT THINNING

CROP	OBJECTIVE / BENEFIT:	APPLICATION TIMING/ USE INSTRUCTIONS
Nectarine, Peach,	<p>Depending on cultivar, orchard conditions, application timing, and grower objectives, the following benefits will be associated with Accede</p> <ul style="list-style-type: none"> • Fruit thinning 	<p>Apply 34.5 to 69 fl oz Accede per acre (equivalent to 4.0 to 8.0 oz a.i. per acre or 300 to 600 ppm ACC assuming a spray volume of 100 gallons per acre) using sufficient spray volume to ensure complete tree coverage (refer to the dilution table for assistance).</p> <p>Accede rate will depend on the amount of fruit thinning required. Product performance can be impacted by factors such as cultivar, prevailing and anticipated climactic conditions, tree vigor, fruit set potential and orchard history.</p> <p>Accede can be applied from the pink bud stage to petal fall.</p> <p>Do not apply ACC prior to pink bud stage. In order to achieve the proper timing, targeting sprays between the upper and lower tree canopy may be necessary.</p> <p>Make the first application of Accede from pink bud to full bloom. Make a second application 7-10 days later if necessary. Do not exceed a total of 8.0 oz a.i. per acre (69 fl oz Accede per acre, equivalent to 600 ppm ACC assuming a spray volume of 100 gallons per acre) in a single application</p> <p>Do not apply Accede after petal fall.</p> <p>Do not apply when frost is expected.</p>

<p>Apricot [Not For Use in California]</p> <p>Sweet and Tart Cherry, [Plum], Chickasaw plum, Damson Plum, Japanese plum, Plumcot, Fresh Prune</p> <p>[Not For Use in California]</p>	<p>Depending on cultivar, orchard conditions, application timing, and grower objectives, the following benefits will be associated with Accede</p> <ul style="list-style-type: none"> • Fruit thinning 	<p>Apply 11.5 to 69 fl oz Accede per acre (equivalent to 1.34 to 8.0 oz a.i. per acre or 100 to 600 ppm ACC assuming a spray volume of 100 gallons per acre) using sufficient spray volume to ensure complete tree coverage (refer to the dilution table for assistance).</p> <p>Accede rate will depend on the amount of fruit thinning required. Product performance can be impacted by factors such as cultivar, prevailing and anticipated climactic conditions, tree vigor, fruit set potential and orchard history.</p> <p>Accede can be applied from the pink bud stage to petal fall.</p> <p>Do not apply ACC prior to pink bud stage. In order to achieve the proper timing, targeting sprays between the upper and lower tree canopy may be necessary.</p> <p>Make the first application of Accede from pink bud to full bloom. Make a second application 7-10 days later if necessary. Do not exceed a total of 8.0 oz a.i. per acre (69 fl oz Accede per acre, equivalent to 600 ppm ACC assuming a spray volume of 100 gallons per acre) in a single application</p> <p>Do not apply Accede after petal fall.</p> <p>Do not apply when frost is expected.</p>
<p>Note: Direct 80% of the spray into the upper 2/3rd of the tree canopy. Use higher rates in orchards that have a history of being difficult to thin and in varieties known to be difficult to thin. Do not apply Accede if temperatures are expected to fall below 32 F or exceed 90 F on the day of application. For specific information on the best use practices for your location, consult with your Valent Agricultural Specialist (1-800-6-Valent).</p>		
<p>Water Volume: Accede efficacy requires that fruit and foliage receive thorough spray coverage. To ensure thorough coverage adjust water volumes based on tree size and spacing and use calibrated spray equipment (i.e. orchard air blast sprayer). Excessive spray application volumes that result in spray runoff will reduce product performance. In most cases, 100 gallons per acre has been shown to be effective.</p>		
<p>Adjuvants: Use of a non-ionic surfactant with Accede will improve performance and response.</p>		
<p>Additional Notes:</p> <ul style="list-style-type: none"> • Compatibility and performance data for Accede with other agricultural products are not available. • Application of Accede to stressed trees or when temperatures are above 90 F or below 32 F may result in over thinning and leaf yellowing or leaf drop. • Do not apply Accede to injured or stressed plants or fruit e.g. girdled trees, freeze injury etc. 		

Accede Dilution Table

Fluid ounces of Accede per 100 gallons of spray required to obtain given ppm concentration.

100 ppm	200 ppm	300 ppm	400 ppm	500 ppm	600 ppm
11.5	23	34	46	57	69

Note: Accede contains 56 grams active ingredient per 16.9 fluid ounces.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store between 45 and 80°F. The product, once opened, should not be stored below 55°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 and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a 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.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. If recycling is not available puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**DISCLAIMER, RISKS OF USING THIS PRODUCT,
LIMITED WARRANTY
AND LIMITATION OF LIABILITY**

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Limited Warranty, and Limitation of Liability before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as "Buyer") of this product should be aware that there are inherent unintended risks associated with the use of this product, which are impossible to eliminate. These risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance of the target pest or weeds to this product, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application, (or a combination of such factors) all of which are factors beyond the control of Valent. The Buyer should be aware that these inherent unintended risks may reduce the harvested yield of the crop in all or a portion of the treated acreage, or otherwise affect the crop such that additional care, treatment and expense are required to take the crop to harvest. If the Buyer chooses not to accept these risks, THEN THIS PRODUCT SHOULD NOT BE APPLIED. By applying this product Buyer acknowledges and accepts these inherent unintended risks AND TO THE FULLEST EXTENT ALLOWED BY LAW, AGREES THAT ALL SUCH RISKS ASSOCIATED WITH THE APPLICATION AND USE ARE ASSUMED BY THE BUYER.

Valent BioSciences shall not be responsible for losses or damages (including, but not limited to, loss of yield, increased expenses of farming the crop or such incidental, consequential or special damages that may be claimed) resulting from use of this product in any manner not set forth on the label. Buyer assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

LIMITED WARRANTY

Valent BioSciences warrants only that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label **and subject to the Risks of Using This Product as described above. To the extent consistent with applicable law AND AS SET FORTH ABOVE, VALENTBIOSCIENCES MAKES NO OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

LIMITATION OF LIABILITY

To the fullest extent allowed by law, Valent BioSciences or Seller is not liable for any incidental, consequential, indirect, or special damages resulting from the use or handling of this product. The limitation includes, but is not limited to, loss of yield on all or any portion of the treated acreage, increased care, treatment or other expenses required to take the crop to harvest, increased finance charges or altered finance ratings, emotional or mental distress and/or exemplary damages. TO THE FULLEST EXTENT ALLOWED BY LAW, THE EXCLUSIVE REMEDY OF THE BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

PROMPT NOTICE OF CLAIM

Valent BioSciences must be provided with prompt notice of any claim so that an immediate inspection of the affected property or plants can be made. To the extent applicable law allows such requirement, notice of a claim shall be given promptly to Valent, whether the claim is based on contract, negligence, strict liability, or other tort or otherwise be barred from any remedy.

NO AMENDMENTS

Valent and Seller offer this product, and Buyer accepts it, subject to the foregoing Disclaimer, Risks of Using This Product, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.