

**ACCEPTED**

**OCT 15 2002**

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 73049-3

73049-3

10-15-2002

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**PROVIDE®**  
**PLANT GROWTH REGULATOR**  
**SOLUTION**

**ACTIVE INGREDIENT:**

Gibberellins A<sub>4</sub>A<sub>7</sub>.....2.0% w/w

**OTHER INGREDIENTS**.....98.0% w/w

**TOTAL:**.....100.0% w/w

(Contains 21 grams active ingredient per liter or 9.93 grams per pint)

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING / AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

EPA Reg. No. 73049-3

EPA Est. No.

Registrant:

Net Contents:

Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

<b>FIRST AID</b>	
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 center or doctor for treatment advice.
If on skin or clothing	--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.
If swallowed	--Call a poison control center 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 center or doctor. --Do not give anything by mouth to an unconscious person.
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies, you may also call toll-free 1-800-892-0099 for treatment information. For all other information call 1-800-6-Valent.	
<b>NOTE TO PHYSICIAN</b>	
Probable mucosal damage may contraindicate the use of gastric lavage.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS ( & DOMESTIC ANIMALS)**

**WARNING**

Causes substantial but temporary eye injury. Harmful if swallowed or absorbed through the skin. Wear goggles and face shield. Do not get in eyes or on clothing. Avoid contact with skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

**Personal Protection Equipment:**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves; such as barrier laminate; butyl, nitrile, or neoprene rubber; polyvinyl chloride (PVC); or viton
- Shoes plus socks
- Protective eye wear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacture'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.

<p><b>User Safety Recommendations</b></p> <p>Users should:</p> <ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>
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**ENVIRONMENTAL HAZARDS**

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

**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 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 label 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
- Chemical-resistant gloves; such as barrier laminate; butyl, nitrile, or neoprene rubber; polyvinyl chloride (PVC); or viton
- Shoes plus socks
- Protective eye wear

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store below 77°F (25 C). Keep containers tightly closed when not in use.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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.

**APPLICATION DIRECTIONS**

Do not apply this product through any type of irrigation system.

**FRUIT RUSSET SUPPRESSION IN APPLES**

ProVide is a plant growth regulator containing gibberellins A<sub>4</sub>A<sub>7</sub> which may reduce the development of physiological fruit russeting in apples when applied in a post-bloom spray program. Used in years when russet conditions are present, ProVide may boost overall fresh market grades of the crop. Physiological russeting is generally associated with the presence of water on the fruit surface during the first 30-40 days of fruit development. Russet severity at a given location is therefore specifically influenced by the weather conditions during and following the bloom period. The key conditions influencing russet include precipitation, humidity and temperature. ProVide may act only on that russet caused by climatic factors active early in fruit development and will not reduce damage associated with mechanical forces such as limb or pedicel rub, insect damage, or russet produced by certain pesticides.

**APPLICATION RATE**

Apply 26 to 40 fluid ounces per acre for a total seasonal rate.

**TIMING OF APPLICATION**

Apply ProVide as two to four consecutive sprays beginning at petal fall, and continuing at 7 to 10-day intervals. This spray timing corresponds to the most sensitive russet development period shown to occur in apples.

**METHOD OF APPLICATION**

Apply 10 fluid ounces\* (15 ppm) to 13 fluid ounces (20 ppm) of ProVide in 100 gallons of water per acre, per application for 2 to 4 total applications. Number and rate of applications should be based on both tree size and local weather conditions. In general, as tree size and overall rainfall increase, the number and rate of applications should be increased. This increase is necessary to maintain adequate coverage of the developing fruit surface during the most sensitive russet period.

**NOTE:** No more than 40 fluid ounces of ProVide should be applied per season.

\*Best russet control may be expected with four 10 fluid-ounce (15 ppm) per acre applications of ProVide.

**APPLICATION INFORMATION:**

1. Do not use with spray surfactants, spreader stickers, etc. since these materials have been shown to induce russet.
2. Do not use in excessive spray volume, (i.e. greater than 100 gal/acre) since excess moisture has been shown to induce russet.
3. Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and fruitlets.
4. Approximately 85% of the spray volume is to be directed into the upper two-thirds of the trees.
5. Minimize excessive spray drift by applying when air is calm.
6. Rainfall within six hours after spraying may reduce activity of ProVide.
7. ProVide may be applied in combination with other materials; refer to respective labels for directions and precautionary statements.

**PREHARVEST FRUIT CRACKING SUPPRESSION IN STAYMAN APPLES**

**NOTE:** Stayman apples that have received ProVide applications to suppress russet may not be treated for cracking suppression during the same growing season.

ProVide is a plant growth regulator containing gibberellins A<sub>4</sub> and A<sub>7</sub>. This material has been shown to suppress preharvest fruit cracking of 'Stayman' apples when used as directed.

ProVide must be applied at least two to three weeks before any fruit cracking is observed in the orchard. Past history of cracking irritation may serve as a guide to when the first application should be made. If the material is applied after cracking has started, effectiveness of the product will be greatly reduced. Since cracking can occur over an extended period of time, multiple applications are required.

Many factors influence fruit cracking in 'Stayman' apples. ProVide is one component of a total management program.

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## **APPLICATION RATE AND TIMING**

Apply 16 to 32 fluid ounces of ProVide per acre per application. Higher application rates may provide better suppression of cracking.

## **TIMING OF APPLICATION**

Apply Provide in three to six consecutive sprays beginning at least two to three weeks before fruit cracking is likely to be observed in the orchard. Depending on geographical location and other factors influencing fruit cracking, the initial application should typically be made between mid-June and mid-July. Intervals between sprays should be 14 to 21 days. Best cracking suppression may be expected when at least four consecutive sprays are applied at 14 to 21 day intervals. When conditions favor heavy cracking, better results may be obtained by using the higher specified rates, the greater specified number of applications, and the closer specified spray intervals.

## **METHOD OF APPLICATION**

Apply material using conventional spray equipment. Use sufficient water volume to obtain good coverage of the fruit surface. Apply as a complete spray (i.e. treat every row middle).

## **APPLICATION INFORMATION**

1. Use of a nonionic wetting agent approved for use on food will improve spray coverage and enhance absorption.
2. Since ProVide must be absorbed to be effective, best performance can be expected with good absorption conditions and healthy trees. High relative humidity and slow drying conditions favor maximum absorption of ProVide. Application in morning or evening may be preferable. Conditions favoring rapid drying of spray deposits should be avoided.
3. Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and fruit. Spray volume should be adjusted to tree size and density.
4. Do not use excessive spray volumes since excess moisture may increase the potential for fruit cracking.
5. Approximately 85% of the spray volume should be directed into the upper two-thirds of the trees.
6. Rainfall within six hours after spraying may reduce activity of ProVide.

7. ProVide may be tank-mixed with most common pesticides labeled for use on apples.

**NOTICE TO USER**

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. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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