

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511C)  
1200 Pennsylvania Avenue NW  
Washington, DC 20460

EPA Reg. Number:

73049-409

Date of Issuance:

2/23/05

Term of Issuance:

Unconditional

Name of Pesticide Product:

ProVide 10 SG

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Valent BioSciences Corporation  
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/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his 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 this 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 registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

- 1. Change "EPA Reg. No. 73049-XX" on the label to, "EPA Reg. No. 73049-409."

Signature of Approving Official:

*[Handwritten signature]*  
(See second page for signature)

Date:

2/23/05

CONCURRENCES

SYMBOL	7511C	7511C					
SURNAME	Greenwood	Holly					

2/10

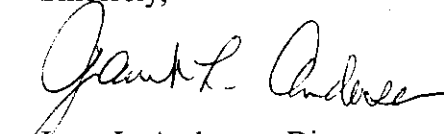
Page 2

EPA Reg. No. 73049-409

2. Submit three (3) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.
3. Submit by May 1, 2006, results of the on-going two-year stability study, for review by the Agency. See the enclosed memorandum (D. Greenway to C. Fuentes; February 16, 2005), in which the 12-month interim report on the in-progress two-year storage stability study was accepted.

A stamped copy of the label is enclosed for your records.

Sincerely,



Janet L. Andersen, Director  
Biopesticides and Pollution  
Prevention Division (7511C)

Enclosures (3)

DGreenway/308-8263/2-23-2005/73049-UNOregnot.wpd

3/0

**ACCEPTED**  
FEB 23 2005  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 73049-409

**PROVIDE® 10 SG**  
**PLANT GROWTH REGULATOR**  
Water Soluble Granule

ACTIVE INGREDIENT:  
Gibberellins A<sub>4</sub>A<sub>7</sub>.....10.0% w/w  
OTHER INGREDIENTS.....90.0% w/w  
TOTAL:.....100.0% w/w

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

EPA Reg. No. 73049-XX  
Net Weight: 3.5 oz (100 grams)

EPA Est. No.

Registrant:  
Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

This container will treat .5 acre at the maximum use rate, as per instructions on the apple cracking suppression use.

<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.
<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.	

4/10

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

**CAUTION**

Causes moderate eye irritation. Harmful if absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove and wash contaminated 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 (such as barrier laminate; butyl; nitrile or neo-prene rubber; polyvinyl chloride or viton) gloves
- Shoes plus socks

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.

<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/PPE 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>
---

**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 when disposing of equipment washwater or rinsate. Cover or collect granules spilled during loading.

2/10

### **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 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 (such as barrier laminate; butyl; nitrile or neo-prene rubber; polyvinyl chloride or viton) gloves
- Shoes plus socks

6/10

### **APPLICATION DIRECTIONS**

Use only as directed. Read the label thoroughly and make sure it is understood before making applications. Do not apply this product through any type of irrigation system.

### **USE INSTRUCTIONS**

ProVide 10 SG is a plant growth regulator developed for use in apples. The active ingredient in ProVide 10 SG is a mixture of the Gibberellins A4 and A7. Gibberellins are naturally occurring compounds found in most plants. ProVide 10 SG is formulated as a water soluble granule (SG) at a 10.0% w/w concentration. The following are the commercial uses for ProVide 10 SG:

### **FRUIT RUSSET SUPPRESSION IN APPLES**

ProVide 10 SG reduces physiological skin russetting when applied in a post-bloom spray program. Physiological skin russetting is generally associated with high humidity conditions and the presence of water on the fruit surface during the first 30 to 40 days of fruit development. Russet severity at a given location and season 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 10 SG will not reduce damage associated with mechanical forces such as limb or pedicel rub, insect damage, or russet produced by certain pesticides. Since the active ingredient in ProVide 10 SG (gibberellins), is a very effective growth promotant, fruit growth enhancement and higher percentage of large fruit will be expected from the ProVide 10 SG applications in addition to improved finish and packout.

### **APPLICATION RATE AND TIMING**

Make 2 to 4 applications of 60 to 100 grams of ProVide 10 SG per acre in 100 gallons of water per application (15-25 ppm). Always make the first spray at the beginning of petal fall, and continue at 7 to 10 days intervals.

### **WATER VOLUME**

Use sufficient water to achieve adequate coverage of the tree canopy without excessive runoff or dilution of the material. For most modern orchards, 100 gallons of spray solution per acre will produce adequate coverage.

7/10

#### APPLICATION INFORMATION:

1. Number and rate of applications will be based on local weather conditions. In general, with very humid weather during and after bloom (rain, fog and heavy dew) the number of applications and the rate of each application will be increased. Under conditions prone to russet development, best russet control will be seen with four-100 gram per acre applications of ProVide 10 SG.
2. The use of spray additives is not required. Some spray additives have been shown to induce russet.
3. Do not use excessive spray volume since excess moisture has been shown to induce russet.
4. Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and fruitlets.
5. Direct 85% of the spray volume to the upper two-thirds of the tree.
6. Minimize excessive spray drift by applying when air is calm.
7. Rainfall within six hours after spraying has been seen to reduce the activity of ProVide 10 SG.
8. **Compatibility:** Limited data are available on the use of ProVide 10 SG with other pesticides. Some pesticides have been shown to cause russet when applied during the early stages of fruit growth. Do not tank mix ProVide 10 SG with other pesticides unless you have personal experience with the mixture.

## FRUIT CRACKING SUPPRESSION IN APPLES

### General Information:

ProVide 10 SG will reduce the incidence of fruit cracking experienced by some apple varieties during the summer months and close to harvest time. Fruit cracking is a physiological disorder associated with sudden growth flushes and variable availability of water to the trees. Some varieties such as Stayman are notorious for this disorder. Other varieties prone to cracking have also been seen to benefit from this application.

### APPLICATION RATE AND TIMING

Make 3 to 6 consecutive applications of 50 to 100 grams of ProVide 10 SG in 50 gallons of water per half acre (25-50 ppm). Make the first application at least two to three weeks before fruit cracking is likely to be observed in the orchard. Continue applications at 14 to 21 day intervals. Depending on geographical location and other factors influencing fruit cracking, the initial application will typically be made between mid-June and mid-July. When conditions favor heavy cracking use the higher rate, the greater specified number of applications, and the closer specified spray intervals.

**NOTE:** Do not treat for cracking suppression apples that have received ProVide 10 SG applications to suppress russet during the same growing season.

### WATER VOLUME

Use sufficient water to achieve adequate coverage of the tree canopy without excessive runoff or dilution of the material. For most modern orchards, 50 gallons of spray solution per half acre will produce adequate coverage.

### IMPORTANT CONSIDERATIONS:

1. Use data on past history of cracking as a guide for when the first application is to be made. If the material is applied after cracking has started, the effectiveness of the product will be greatly reduced.
2. Use of a nonionic surfactant, approved for food use, will improve spray coverage and enhance absorption.
3. Since ProVide 10 SG must be absorbed to be effective, best performance will be expected with good absorption conditions and healthy trees. Apply in early morning or late evening when conditions favor slow drying of the spray solution (high humidity, cool temperature, low wind).
4. Use a properly calibrated sprayer that insures uniform and complete coverage of all foliage and fruit. Adjust spray volumes to tree size and density.



4/10

5. Direct 85% of the spray volume to the upper two-thirds of the tree.
6. Rainfall within six hours after spraying has been seen to reduce the activity of ProVide 10 SG.
7. **Compatibility:** Limited data are available on the use of ProVide 10 SG with other pesticides. Do not tank mix ProVide 10 SG with other pesticides unless you have personal experience with the mixture.

Grams of ProVide 10 SG	Grams of active ingredient (GA4+GA7)	# ppm in 50 gallons of water	# ppm in 100 gallons of water
60	6	30	15
80	8	40	20
100	10	50	25

**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.

10/10

**Warranty and Disclaimer Statement:**

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

© 2005