

ProVide[®] 10SG

PLANT GROWTH REGULATOR

SOLUBLE GRANULE



FOR ORGANIC PRODUCTION

ACTIVE INGREDIENT:

Gibberellins A₄A₇ 10.0% w/w

OTHER INGREDIENTS 90.0% w/w

TOTAL 100.0% w/w

This container will treat 0.5 acre at the maximum use rate, as per instructions on the apple cracking suppression use.

EPA Reg. No. 73049-409

EPA Est. No. 33762-IA-001

List No. 05610

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KEEP OUT OF REACH OF CHILDREN

CAUTION

1.0

FIRST AID

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.

HOT LINE NUMBER

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 (682-5368).

2.0

PRECAUTIONARY STATEMENTS

2.1

Hazards To Humans And Domestic Animals

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.

2.2

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- 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.

2.3

User Safety Recommendations

User should:

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

2.4

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.

3.0

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.

CONTINUED

4.0 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 4 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 (made of waterproof material)
- Shoes plus socks

5.0 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.

5.1 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:

5.2 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.

5.3 Application Rate and Timing

Make 2 to 4 applications of 2.1 to 3.5 oz. (60-100 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 day intervals.

5.4 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.

5.5 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-3.5 oz. (100 grams) 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.

6.0 FRUIT CRACKING SUPPRESSION IN APPLES

6.1 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.

6.2 Application Rate and Timing

Make 3 to 6 consecutive applications of 1.8 to 3.5 oz. (50-100 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.

6.3 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.

6.4 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.
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.

To Increase Length of Lateral Bloom Pedicels in Short-Stemmed Apple Varieties [Not for Use in California]:

Apply 17.5 to 35 ounces (500 to 1000 grams) of *ProVide* 10SG per acre in an application volume of 100 gallons of water per acre (125 to 250 ppm). Make a single application between the tight cluster and first pink stages of bud development.

Applications made earlier than tight cluster have not been shown to be effective. Applications made later than first pink can result in elongation of king bloom pedicels and exaggerated elongation of fruit.

The addition of a nonionic surfactant has been shown to improve performance.

NOTE: Do not treat for cracking suppression apples that have received *ProVide* 10SG applications to increase length of lateral bloom pedicels during the same growing season.

Ounces of <i>ProVide</i> 10 SG	Grams of active ingredient (GA ₄ +GA ₇)	# ppm in 50 gallons of water	# ppm in 100 gallons of water
2.1 (60 grams)	6	30	15
2.8 (80 grams)	8	40	20
3.5 (100 grams)	10	50	25

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

8.0 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.

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44-1040/R6 (Pkg. A50410337/R12 A)

Distributed by:
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Read and follow the label instructions before using.