

JAN - 8 1990

Mr. D. Kenney
Abbot Laboratories
1400 Sheridan Road
North Chicago, IL 60664

Dear Mr. Kenney:

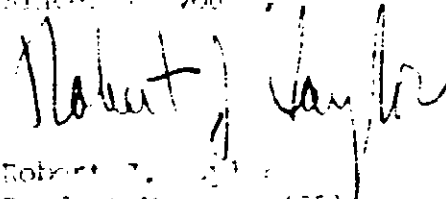
Subject: PRO-VIDE Plant Growth Regulator
EPA Registration No. 275-2
RE: Label Amendment Adding New Use on Apples
Your Letter Dated December 5, 1989

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable with the following comments;

1. Under section entitled, "Fruit Russet Suppression", add the words "in Golden and Red Delicious Apples" to read: "Fruit Russet Suppression in Golden and Red Delicious Apples".
2. Under section entitled, "Preharvest Fruit Cracking Suppression", add the words "in Stayman Apples" to read: "Preharvest Fruit Cracking Suppression in Stayman Apples".
3. Make sure Environmental Hazards Statements and Storage and Disposal Statements appear on label.

Please submit five (5) copies of your final printed labeling for each of the above mentioned products incorporating the amendment before you release the products for shipment. Stamped copies of the reviewed draft labeling are enclosed for your records.

Sincerely yours,



Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL	17505-C						
SURNAME	maill						
DATE	1/8/90						

Lot 5608
01-3644 R2-10 0188



PRO-VIDE™
(Gibberellins A₄A₇)
Plant Growth Regulator

Active Ingredient:
Gibberellins A₄A₇ 2.0% w/w
Inert Ingredients 98.0% w/w

**KEEP OUT OF REACH
OF CHILDREN**

CAUTION

Causes eye irritation. Do not get in eyes.
In case of contact, immediately flush
eyes with plenty of water and call a phy-
sician.

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 through any
type of irrigation system.

STORAGE AND DISPOSAL

See container label.

EPA Registration No. 275-2
EPA Est. No. 35347-CA-1

Approved Underline

Fruit Russet Suppression

DIRECTIONS FOR USE

Pro-Vide is for suppression of fruit russeting of Delicious apples (Goldens and Reds). Pro-Vide is a plant growth regulator containing gibberellins A₁A₂ which may reduce the development of physiological fruit russeting in Delicious apples when applied in a post-bloom spray program. Used in years when russet conditions are present, Pro-Vide 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. Pro-Vide may be effective against russet caused by certain factors active early in fruit development and will not reduce damage associated with mechanical forces such as insect peeling, insect damage, et al., or caused by certain pesticides.

APPLICATION RATE

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

TIMING OF APPLICATION

Apply Pro-Vide 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 Delicious apples.

METHOD OF APPLICATION

Apply 10 ounces* (15 ppm) to 13 ounces (20 ppm) of Pro-Vide 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 ounces of Pro-Vide should be applied per season.**

* Best russet control may be expected with four 13-ounce (15 ppm) per acre applications of Pro-Vide.

APPLICATION CONSIDERATIONS

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 should be directed into the upper two thirds of the trees.
5. To minimize excessive spray drift, apply when air is calm.
6. Rainfall within six hours after spraying may reduce activity of Pro-Vide.
7. Pro-Vide may be applied in combination with other materials. Refer to appropriate labels for directions and precautionary statements.



Chemical Process Corporation
1000 North Dearborn
Chicago, Illinois 60610
Tel. (312) 467-1004

TM - Trademark

Printed in U.S.A.

APPROXIMATE OUTLINE

BEST AVAILABLE COPY

BEST AVAILABLE COPY

December 12, 1989 Proposed Addition Submitted to EPA

PREHARVEST FRUIT CRACKING SUPPRESSION

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 through any type of irrigation system.

ProVide is a plant growth regulator containing gibberellins A4 and A7. 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 initiation 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.

APPLICATION RATE AND TIMING

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

TIMING OF APPLICATION

Apply ProVide in three to four 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 12 to 16 days. Best cracking suppression may be expected using four consecutive sprays at 14 day 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 CONSIDERATIONS

1. A nonionic wetting agent (e.g. Tween 20, Regulaid, etc.) may 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 (greater than 400 gallons per acre) 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.