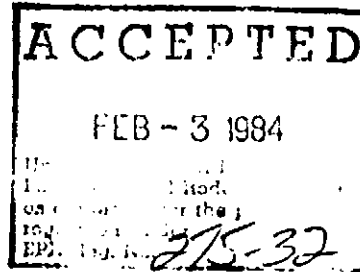


List No. 5702

promalin[®]
PLANT GROWTH REGULATOR



ABBOTT Chemical and Agricultural
Products Division
Abbott Laboratories
North Chicago, Illinois 60064

01-2270/R6-20-Rev. 1282

Printed in U.S.A.

List No. 5702
02

promalin[®]
PLANT GROWTH REGULATOR

Active Ingredients
N-(phenylmethyl)-1H-pyrimidin-6-amine 1.8% (w/w)
Gibberellins A₁, A₂, A₃ 1.8% (w/w)
Inert Ingredients 96.4%

KEEP OUT OF REACH OF CHILDREN

WARNING

Causes eye irritation. Do not get in eyes. Harmful if swallowed. In case of contact, immediately flush eyes with plenty of water. Call a physician.

Store Below 75°F (23°C)

See supplemental labeling for directions for use

EPA Registration No. 275-32

EPA Est. No. 275-IL-1

Net Contents 20 x 1 Pint Bottles

Lot No.

Not for sale
or use after

promalin[®]
PLANT GROWTH REGULATOR

PROMALIN[®] is a plant growth regulator for use on apples*. When applied at specific spray timing and concentration, PROMALIN will provide the following effects:

1. PROMALIN improves the shape of Delicious[®] apples through elongation of fruit and development of more prominent calyx lobes. These desirable effects will be most evident in years when natural tippiness is limited.
2. On Delicious and other varieties PROMALIN may increase weight of individual fruit and yield per tree. Some thinning may occur from the use of PROMALIN.
3. On red apple varieties, e.g. Delicious, Jonathan, Jonamac, McIntosh, Paulared, Spartan, Empire, PROMALIN may be combined (in all States except California) with Alar[®]-B5 to enhance expected desirable effects from Alar-B5 including improved color, earlier coloring, increased fruit pressure and prevention of preharvest fruit drop.
- **4. On most apple varieties, PROMALIN will increase lateral bud break, shoot growth, and improve branch angles on non-bearing apple trees, including nursery stock. This effect will provide a better tree framework for early cropping.

Directions for Use
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Do not apply to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Storage and Disposal
Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide spray mixture or residue that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Triple rinse container and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult federal, state or local disposal authorities for approved alternative procedures such as limited open burning.

A. Rate and Timing of Application — Fruit Development

1. **Single Application for Improved Type**
Western U.S.: A single application of PROMALIN should be made from early king bloom (king blossoms opening and side blossoms in the balloon stage) to the early stages of petal fall of the king blossoms.

***PROMALIN-ELGETOL[®] (DMOC 19% AI)** (for type and thinning on sour Delicious strains) Apply a tank mix of PROMALIN and Elgetol at the recommended Elgetol timing, i.e. 80% full king bloom on the north side of the tree. Apply 2 pints of PROMALIN plus 4 pints of Elgetol in 200 gallons of water per acre.

*Only Red Delicious apples in California

**All States except California

acre. Observe all precautionary statements on Elgetol label. **Eastern U.S.:** A single application of PROMALIN should be made from early king bloom to the early stages of petal fall of side blossoms.

For both eastern and western U.S. apply 1 to 2 pints of PROMALIN per acre in 50 to 200 gallons of spray mixture as a fine mist spray.

2. **Split Applications for Improved Type and Size**
A split application may be utilized to improve typing and sizing responses. The first application should be made from early king bloom to the early stages of petal fall of the king bloom. The second application should be made 7 to 21 days later. Apply 0.5 to 1 pint of PROMALIN per acre in 50 to 200 gallons of spray mixture in each application. Do not, however, exceed the maximum recommended rate of a total of 2 pints per acre for the combined sprays.
- *3. **Split Applications to Improve "Tippiness"** in locations where the Bloom Period is Prolonged or Occurs over a Period of Several Days.

Make two PROMALIN applications three or more days apart. The first spray should be timed during the first flush of bloom. A second application should be made when the remainder of the tree canopy comes into bloom. The time between PROMALIN applications may vary from orchard to orchard within a given growing area because of the influence of the local microclimate. In most instances a period from 3 to 7 days between sprays is adequate. The time interval between sprays should be lengthened should cool weather further prolong bloom. For the most efficient use of PROMALIN, bloom progression within individual orchards should be assessed at least every 48 hours.

Apply PROMALIN twice as two concentrate sprays each containing 0.5-1 pint of PROMALIN in 100 gpa. The spray machine should be calibrated to deliver 100 gpa and nozzle to direct the spray mist to those portions of the tree canopy currently in bloom. An appropriate wetting agent should be included so as to insure even thorough coverage of open blossoms.

*4. **PROMALIN and ALAR[®] B5 (Plant Growth Regulator)** for Commercial Applications to Apples
PROMALIN and Alar-B5 may be combined as a tank mix application during mid-summer (60-80 days preharvest) on apples. This tank mix may enhance the expected desirable effect from Alar-B5 application including improved color, earlier coloring, increased fruit pressure, and prevention of preharvest fruit drop.

Use 1 to 2 pints of PROMALIN and 2 to 4 pounds of Alar-B5 per acre in 100-400 gallons of spray solution. Alar should be added to the tank mix prior to the addition of PROMALIN. The PROMALIN and Alar-B5 tank mix should be applied as a foliar spray in a manner that insures even and complete coverage. Do not exceed the per acre recommended rate. See current Alar-B5 label for precautionary statements and other specific recommendations.

Mixing Instructions

Add the required amount of PROMALIN to a spray tank about half filled with water. Agitate while bringing the total volume of water to the required level. New solutions should be mixed only in a clean, empty spray tank, and used within 24 hours. A nonionic wetting agent, e.g. Tween[®]-20, Glyodin[®], or Buffer-K[®] may improve spray coverage and enhance absorption.

to the required level. New solutions should be mixed only in a clean, empty spray tank, and used within 24 hours. A nonionic wetting agent, e.g. Tween[®]-20, Glyodin[®], or Buffer-K[®] may improve spray coverage and enhance absorption.

Application Considerations

1. Since PROMALIN is a plant growth regulator that must be absorbed by the plant to be effective, best performance can be expected with good absorption conditions and healthy, vigorous trees. Do not spray the recommended tank mixes on any low vigor trees or trees under stress as from drought, low fertility, winter injury, etc.
2. Apply PROMALIN spray mixture as a uniform fine mist spray.
3. Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and blossoms. Spray volume should be adjusted to tree size and density.
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. High relative humidity and slow drying conditions favor maximum absorption of PROMALIN. Application in morning or evening may be preferable. Conditions favoring rapid drying of the spray deposit should be avoided.
7. Rainfall within six hours after spraying may reduce activity of PROMALIN.
8. Do not apply PROMALIN when air temperatures are lower than 40°F or greater than 90°F.
9. Do not apply PROMALIN to more than 200 gallons of spray per acre.

B. Rate and Timing of Application

1. **Lateral Branching and Tree Development** (Non-bearing trees)
A single foliar application of PROMALIN or a PROMALIN-Elgetol spot application may be applied to non-bearing trees, including nursery stock, to increase lateral bud break, shoot growth, improve branch angles, and provide a better tree framework for early cropping.

Roller Applications

1. **Roller sprays:** use one-quarter (0.25) to one (1) pint of PROMALIN per 500 to 1000 sq. ft. of spray solution to attain a concentration of 125 to 500 ppm of PROMALIN in the final spray solution. Preferably, use a non-ionic wetting agent, e.g. Tween[®]-20, Glyodin[®], etc. should be added to the tank mix at a rate of 0.2-0.3% (1-2 oz. 5 gal.) prior to the addition of PROMALIN. This practice will improve wetting and absorption through the cuticular layers on the foliage and bark surfaces.

In all cases the final spray should not be alkaline. Uniformly apply the PROMALIN spray mixture with a pressurized hand sprayer, hand gun attachment to an airblast sprayer or an airblast sprayer to thoroughly wet the bark and foliage surfaces. Approximately five to ten (5-10) gallons of spray mixture will treat an acre of non-bearing (1-4 year old) trees on a 12 by 12 spacing (310 trees).

Application of PROMALIN should be made during the period from one (1) to three (3) inches of new terminal shoot growth. This period generally coincides with a timing of one (1) to two (2) weeks after full bloom. Applications should be terminated when new terminal shoot growth is greater than 12 inches.

minated when new terminal shoot growth is greater than 12 inches.

Latex Applications
For latex applications, use 1 pint of PROMALIN per one (1) pint of latex concentrate of 7500 ppm.

Latex Applications
For latex applications, use 1 pint of PROMALIN per one (1) pint of latex concentrate of 7500 ppm. Latex should be added to the tank mix prior to the addition of the latex concentrate. The latex concentrate should not be added to the tank mix until after the PROMALIN has been added. The latex concentrate should not be added to the tank mix until after the PROMALIN has been added. The latex concentrate should not be added to the tank mix until after the PROMALIN has been added.

Tank Mix Compatibility

1. PROMALIN may be applied with:
2. A buffer should be added to the pH below 8.
3. Fungicides: Benlate[®], Ferbam[®], Poly M-45, Orthocide[®], wettable PROMALIN at the recommended application rate. Application for PROMALIN and fungicides should be made according to their respective labels for directions.

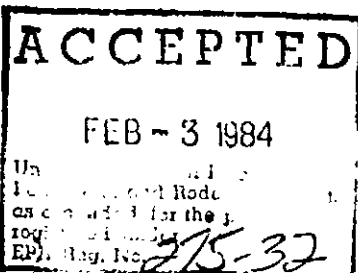
Notice to User

Seller makes no warranty, express or implied, as to the fitness or otherwise of the product for use as indicated on the label. Use or handling not in strict accordance with the label.

*All States except California
*Elgetol, Alar, Buffer-K, Tween, Glyodin, M-45, Trilon, Glyoc companies other than Abbott Laboratories

ABBOTT Chemical Products
Abbott Laboratories
North Chicago, Illinois 60064

01-5967-2/R2



alin®
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Printed in U.S.A.

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or use on apples* When
centration, PROMALIN

of Delicious* apples
stopment of more prom-
effects will be most evi-
is limited
ROMALIN may increase
per tree. Some thinning
us. Jonathan, Jonamac,
ite, PROMALIN may be
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increased fruit pressure
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LIN will increase lateral
ve branch angles on non-
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early cropping

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burning

on - Fruit

of PROMALIN should be
g blossoms opening and
get to the early stages of

19% Alar for type and thin-
by a tank mix of PROMA-
Elgetol timing, i.e. 80%
l the tree. Apply 2 pints of
n 200 gallons of water per

acre. Observe all precautionary statements on Elgetol label
Eastern U.S.: A single application of PROMALIN should be
made from early king bloom to the early stages of petal fall of
side blossoms.

For both eastern and western U.S. apply 1 to 2 pints of
PROMALIN per acre in 50 to 200 gallons of spray mixture as
a fine mist spray.

2 Split Applications for Improved Type and Size

A split application may be utilized to improve typing and
sizing responses. The first application should be made from
early king bloom to the early stages of petal fall of the king
bloom. The second application should be made 7 to 21 days
later. Apply 0.5 to 1 pint of PROMALIN per acre in 50 to 200
gallons of spray mixture in each application. Do not, how-
ever, exceed the maximum recommended rate of a total of 2
pints per acre for the combined sprays.

*3 Split Applications to Improve "Typiness" in Locations where the Bloom Period is Prolonged or Occurs over a Period of Several Days

Make two PROMALIN applications three or more days apart.
The first spray should be timed during the first flush of
bloom. A second application should be made when the
remainder of the tree canopy comes into bloom.

The time between PROMALIN applications may vary from or-
chard to orchard within a given growing area because of the
influence of the local microclimate. In most instances a
period from 3 to 7 days between sprays is adequate. The
time interval between sprays should be lengthened should
cool weather further prolong bloom. For the most efficient
use of PROMALIN, bloom progression within individual or-
chards should be assessed at least every 48 hours.

Apply PROMALIN twice as two concentrate sprays, each
containing 0.5-1 pint of PROMALIN in 100 gpa. The spray
machine should be calibrated to deliver 100 gpa and nozzled
to direct the spray mist to those portions of the tree canopy
currently in bloom. An appropriate wetting agent should be
included so as to insure even thorough coverage of open
blossoms.

*4 PROMALIN and ALAR®-B5 (Plant Growth Regulator) for Commercial Applications to Apples

PROMALIN and Alar-B5 may be combined as a tank mix ap-
plication during mid summer (60-80 days preharvest) on
apples. This tank mix may enhance the expected desirable
effect from Alar-B5 application, including improved color,
earlier coloring, increased fruit firmness, and prevention of
preharvest fruit drop.

Use 1 to 2 pints of PROMALIN and 2 to 4 pounds of Alar-B5
per acre in 100-400 gallons of spray solution. Alar should be
added to the tank mix prior to the addition of PROMALIN.
The PROMALIN and Alar-B5 tank mix should be applied as a
total spray in a manner that insures uniform and complete
coverage. Do not exceed the per acre recommended rate.
See current Alar-B5 label for precautionary statements and
other specific recommendations.

Mixing Instructions

Add the required amount of PROMALIN to a spray tank about half
filled with water. Agitate while bringing the total volume of water
to 100-400 gallons per acre.

*All States except California

to the required level. New solutions should be mixed only in a
clean, empty spray tank and used within 24 hours. A nonionic
wetting agent, e.g. Tween®-20, Glyodin® or ~~other~~ may im-
prove spray coverage and enhance absorption.

Application Considerations

1. Since PROMALIN is a plant growth regulator that must be ab-
sorbed by the plant to be effective, best performance can be
expected with good absorption conditions and healthy
vigorous trees. Do not spray the recommended tank mixes
on any low vigor trees or trees under stress as from drought,
low fertility, winter injury, etc.
2. Apply PROMALIN spray mixture as a uniform fine mist spray.
3. Use a properly calibrated and adjusted sprayer that insures
uniform and complete coverage of all foliage and blossoms.
Spray volume should be adjusted to tree size and density.
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. High relative humidity and slow drying conditions favor
maximum absorption of PROMALIN. Application in morning
or evening may be preferable. Conditions favoring rapid
drying of the spray deposit should be avoided.
7. Rainfall within six hours after spraying may reduce activity
of PROMALIN.
8. Do not apply PROMALIN when air temperatures are lower
than 40°F. For greater than 90°F.
9. Do not apply PROMALIN to more than 200 gallons of spray
per acre.

Rate and Timing of Application

- Lateral Branching and Tree Development (Non-bearing
trees)
- A single foliar application of PROMALIN or a PROMALIN-
latex spot application may be applied to non-bearing trees,
including nursery stock, to increase lateral bud break, shoot
growth, improve branch angles, and provide a better tree
framework for early crop.

• Foliar Applications

- For early sprays, use one quarter (0.25) to one (1) pint of
PROMALIN per 50 gallons of spray solution to attain a con-
centration of 125 to 500 ppm of PROMALIN in the final spray
solution. Preferably, a non-ionic wetting agent, e.g. Tween-20,
Glyodin, etc., should be added to the tank mix at a rate of
2.0-3.0 fl. oz. or 5 gal. prior to the addition of PROMALIN.
This practice will improve wetting and absorption through
the waxy cuticular layers on the foliage and bark surfaces.
• Only cases the final spray should not be alkaline.
- Uniformly apply the PROMALIN spray mixture with a pre-
sized hand sprayer, hand gun attachment to an airblast
sprayer, or an airblast sprayer to thoroughly wet the bark
and foliage surfaces. Approximately five to ten (5-10) gallons
of spray mixture will treat an acre of non-bearing (1-4 year
old) trees on a 12 by 12 spacing (1310 trees).
- Application of PROMALIN should be made during the period
from one (1) to three (3) inches of new terminal shoot growth.
This period generally coincides with a timing of one (1) to
two (2) weeks after full bloom. Applications should be ter-

*All States except California

minated when new terminal shoot growth ceases. Nursery
stock should be treated after trees attain a terminal height at
which the first lateral scaffold branches are desired (i.e.
greater than 12 inches).

Latex Applications

For latex applications, use one-third (0.33) pint of PROMA-
LIN per one (1) pint of interior flat latex paint to attain a con-
centration of 7500 ppm. Mix thoroughly. Preferably a non-
ionic wetting agent, e.g. Tween-20, Glyodin, etc., should be added to the tank mix at the rate of 0.5 to 1.0%
prior to the addition of the PROMALIN. This practice will im-
prove the dispersion of PROMALIN in the latex paint and will
also improve wetting and absorption through the waxy
cuticular layers on the bark surfaces. The final application
mixture should not be alkaline.

Uniformly apply the PROMALIN-latex mixture with a brush
or sponge to thoroughly cover the bark surface. Apply only
to one-year-old dormant branches.

Since this application is intended primarily for stimulating
lateral growth from vegetative buds on one-year-old dormant
wood, application of PROMALIN should be made in late April
and early May depending on season and locality. A useful
guide is to make the application just as the terminal buds on
shoots or spurs are beginning to break. Applications after
lateral buds have broken may cause some injury to the
tender shoot tips and fail to promote continued shoot growth
from that point.

Tank Mix Compatibility

1. PROMALIN may be applied in combination with plant nu-
trients.
2. A buffer should be added to alkaline spray water to reduce
the pH below 8.
- *3. Fungicides
Benlate® Ferbam® Polyram® Thiram® Glyodin® Dithane®
M-45 Orthocide® wettable sulfur may be tank mixed with
PROMALIN at the recommended timing associated with
bloom applications as described under "Rate and Timing of
Application" for PROMALIN. When using fungicides, refer to
respective labels for directions and precautionary state-
ments.

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 direc-
tions.

*All States except California

*Elgetol, Alar, ~~other~~ Tween, Benchor, Ferbam, Polyram, Thiram,
Dithane M-45, Glyodin and Orthocide are trademarks of
company other than Abbott Laboratories.



Chemical and Agricultural
Products Division
Abbott Laboratories
North Chicago, Illinois 60064

01-5967-2

Printed in U.S.A.

promalin

PLANT GROWTH REGULATOR

PROMALIN® is a plant growth regulator for use on apples. When applied at specific spray timing and concentration, PROMALIN will provide the following effects:

1. PROMALIN improves the shape of Delicious® apples through elongation of fruit and development of more prominent calyx lobes. These desirable effects will be most evident in years when natural ripeness is limited.
2. On Delicious and other varieties, PROMALIN may increase weight of individual fruit and yield per tree. Some thinning may occur from the use of PROMALIN.
3. On red apple varieties, e.g., Delicious, Jonathan, Jonamac, Macintosh, Paulared, Spartan, Empire, PROMALIN may be combined in all States except California with Alar® 85 to enhance expected desirable effects from Alar 85 including improved color, earlier coloring, increased fruit pressure and prevention of preharvest fruit drop.
- **4. On most apple varieties, PROMALIN will increase lateral bud break, shoot growth, and improve branch angles on non-bearing apple trees, including nursery stock. This effect will provide a better tree framework for early cropping.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

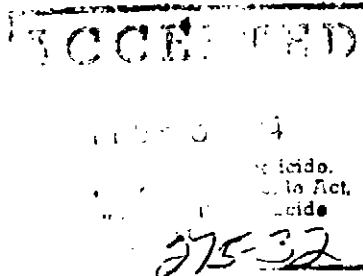
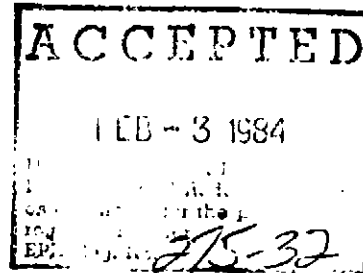
Do not apply to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Pesticide spray mixture or residue that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Triple rinse container and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place.

*For Red Delicious apples in California
**All States except California



List No 5702
02

promalin®

PLANT GROWTH REGULATOR

Active Ingredients

N-(phenylmethyl)-1H-pyrazole-6-amine 1.8% (w/w)
Gibberellins A₁A₂ 1.8% (w/w)
Inert Ingredients 96.4%

KEEP OUT OF REACH OF CHILDREN

WARNING

Causes eye irritation. Do not get in eyes. Harmful if swallowed. In case of contact, immediately flush eyes with plenty of water. Call a physician.

Store Below 75°F (23°C)

See supplemental labeling for directions for use.

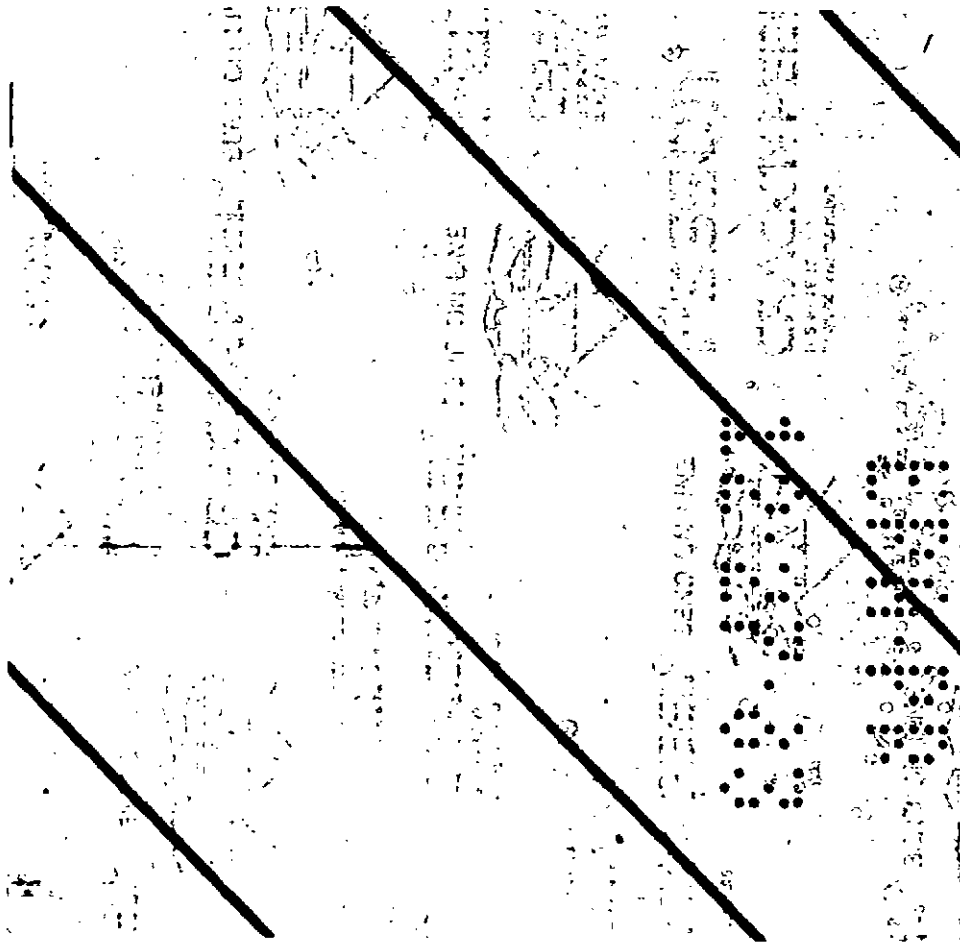
EPA Registration No. 275-32

EPA Est. No. 275-11-1

Net Contents: 20 - 1 Pint Bottles

Lot No.

Not for sale
or use after



Promalin

PLANT GROWTH REGULATOR

PROMALIN[®] is a plant growth regulator for use on apples.* When applied at specific spray timing and concentration, PROMALIN will provide the following effects:

1. PROMALIN improves the shape of Delicious[®] apples through elongation of fruit and development of more prominent calyx lobes. These desirable effects will be most evident in years when natural tipiness is limited.
2. On Delicious and other varieties PROMALIN may increase weight of individual fruit and yield per tree. Some thinning may occur from the use of PROMALIN.
3. On red apple varieties, e.g. Delicious, Jonathan, Jonamac, McIntosh, Paulared, Spartan, Empire, PROMALIN may be combined (in all States except California with Alar[®] B5) to enhance expected desirable effects from Alar-B5, including improved color, earlier coloring, increased fruit pressure and prevention of preharvest fruit drop.
4. On most apple varieties, PROMALIN will increase lateral break, shoot growth, and improve branch angles on non-bearing apple trees, including nursery stock. This effect will provide a better tree framework for early cropping.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply to any body of water. Do not contaminate water by cleaning of equipment or disposal of wastes.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

If side spray mixture or residue that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies. Rinse container and dispose in an incinerator or landfill approved for pesticide containers or bury in a safe place.

* Red Delicious apples in California.

* All States except California.

Consult Federal, State and local spray authorities for approved alternative procedures such as limited open burning.

A. Rate and Timing of Application — Fruit Development

1. Single Application for Improved Type

Western U.S.: A single application of PROMALIN should be made from early king bloom (king blossoms opening and side blossoms in the balloon stage) to the early stages of petal fall of the king blossoms.

PROMALIN-ELGETOL[®] ID#00C 1½ lb. Alar for type and thinning on spur Delicious strains. Apply a tank mix of PROMALIN and Elgetol at the recommended Elgetol timing, i.e. 80% full king bloom on the north side of the tree. Apply 2 pints of PROMALIN plus 4 pints of Elgetol in 200 gallons of water per acre. Observe all precautionary statements on Elgetol label.

Eastern U.S.: A single application of PROMALIN should be made from early king bloom to the early stages of petal fall of side blossoms.

For both eastern and western U.S. apply 1 to 2 pints of PROMALIN per acre in 50 to 200 gallons of spray mixture as a fine mist spray.

2. Split Applications for Improved Type and Size

A split application may be utilized to improve typing and sizing responses. The first application should be made from early king bloom to the early stages of petal fall of the king bloom. The second application should be made 7 to 21 days later. Apply 0.5 to 1 pint of PROMALIN per acre. Do not however exceed the maximum recommended rate of a total of 2 pints per acre for the combined sprays.

3. Split Applications to Improve Tipiness in Locations where the Bloom Period is Prolonged or Occurs over a Period of Several Days

Make two PROMALIN applications three or more days apart. The first spray should be timed during the first flush of bloom. A second application should be made when the remainder of the tree canopy comes into bloom.

The time between PROMALIN applications may vary from orchard to orchard within a given growing area because of the influence of the local microclimate. In most instances a period from 3 to 7 days between sprays is adequate. The time interval

* All States except California.

275-32

between sprays should be determined by the weather conditions prevailing in the orchard. The second application of PROMALIN should be made when the remainder of the tree canopy comes into bloom.

Apply PROMALIN at a concentration of 0.5 to 1 pint per acre in 50 to 200 gallons of spray mixture. The spray mixture should be calibrated to deliver 100 gpa and nozzled to direct the spray mist to those portions of the tree canopy currently in bloom. An appropriate wetting agent should be included so as to insure even thorough coverage of non-bearing blossoms.

4. PROMALIN and ALAR[®] B5 Plant Growth Regulators for Commercial Apples to Apples

PROMALIN and Alar-B5 may be combined as a tank mix application during mid summer (60-80 days preharvest) on apples. This tank mix may enhance the expected desirable effect from Alar-B5 application including improved color, earlier coloring, increased fruit pressure, and prevention of preharvest fruit drop.

Use 1 to 2 pints of PROMALIN and 2 to 4 pounds of Alar-B5 per acre in 100 to 400 gallons of spray solution. Alar should be added to the tank mix prior to the addition of PROMALIN. The PROMALIN and Alar-B5 tank mix should be applied as a full spray in a manner that insures uniform and complete coverage. Do not exceed the per acre recommended rate. See current Alar-B5 label for precautionary statements and other specific recommendations.

Mixing Instructions

Add the required amount of PROMALIN to a spray tank about half filled with water. Agitate while bringing the total volume of water to the required level. Few solutions should be mixed only in a clean empty spray tank and used within 24 hours. A non-ionic wetting agent, e.g. Tween[®] 20, Glyd[®] n[®] or ~~other~~ may improve spray coverage and enhance absorption.

Application Considerations

1. Since PROMALIN is a plant growth regulator that must be absorbed by the part to be affected, best performance can be expected with good absorption conditions and healthy, vigorous trees. Do not spray the recommended tank mixes on any low vigor trees or trees under stress as from drought, low fertility, winter injury, etc.
2. Apply PROMALIN spray mixture as a uniform fine mist spray.

* All States except California.

3. Use a properly calibrated and adjusted sprayer that insures uniform and thorough coverage of all foliage and blossoms. Spray volume should be adjusted to insure uniform density.
4. Apply material 85% of the spray volume should be directed to the upper two thirds of the trees.
5. Thinning greenness (respraying) if spray when air is calm, high relative humidity, and slow drying conditions favor maximum absorption of PROMALIN. Application in morning or evening may be preferable. Conditions favoring rapid drying of the spray deposit should be avoided.
6. Rainfall within 6 hours after spraying may reduce activity of PROMALIN.
7. Do not apply PROMALIN when air temperatures are lower than 45°F or greater than 90°F.
8. Do not apply PROMALIN in more than 200 gallons of spray per acre.

B. Rate and Timing of Application

Lateral Branching and Tree Development (Non-bearing trees)

A single foliar application of PROMALIN or a PROMALIN later spot application may be applied to non-bearing trees, including nursery stock, to increase lateral bud break, shoot growth, improve branch angles, and provide a better tree framework for early cropping.

Foliar Applications

For foliar sprays, use one-quarter (0.25) to one (1) pint of PROMALIN per 5 gallons of spray solution to attain a concentration of 125 to 500 ppm of PROMALIN in the final spray solution. Preferably, ~~add a non-ionic wetting agent, e.g. Tween-20, Triton X-100, Glyd-n, etc. should be added to the tank mix at a rate of 0.2-0.3% (1-2 oz. 5 gal.) prior to the addition of PROMALIN.~~ This practice will improve wetting and absorption through the waxy cuticular layers on the foliage and bark surfaces. In all cases the final spray should not be alkaline.

Uniformly apply the PROMALIN spray mixture with a pressurized hand sprayer, hand gun attachment to an airblast sprayer, or an airblast sprayer to thoroughly wet the bark and foliage surfaces. Approximately five to ten (5-10) gallons of spray mixture will treat an acre of non-bearing (1-4 year old) trees on a 12 by 12 spacing (310 trees).

Application of PROMALIN should be made during the period from one (1) to three (3) inches of new terminal shoot growth. This period generally coincides with a timing of one (1) to

* All States except California.

List No. 5702
02

Promalin[®]

PLANT GROWTH REGULATOR

Ingredients
Enylmethyl-1H-purine-6-amine 1.6% (w/w)
Cellulose A.A. 1.6% (w/w)
Ingredients 96.4%

KEEP OUT OF REACH OF CHILDREN

WARNING

Eye irritant. Do not get in eyes. Harmful if swallowed. In case of contact, immediately flush eyes with water. Call a physician.

Net 75°F (23°C)

Supplemental labeling for directions for use

Registration No. 275-32

No. 275-32-1

Units: 2L x 1 Pint Bottles

two (2) weeks after full bloom. Applications should be terminated when new terminal shoot growth ceases. Nursery stock should be treated after trees attain a terminal height at which the first lateral scaffold branches are desired (no greater than 12 inches).

Latex Applications

For latex applications, use one-third (0.33) pint of PROMALIN per one (1) pint of interior latex paint to attain a concentration of 7500 ppm. Mix thoroughly. Preferably a ~~water-soluble~~ non-ionic wetting agent should be added to the tank mix at the rate of 0.5 to 1.0% prior to the addition of the PROMALIN. This practice will improve the dispersion of PROMALIN in the latex paint and will also improve wetting and absorption through the waxy cuticular layers on the bark surfaces. The final application mixture should not be alkaline.

Uniformly apply the PROMALIN-latex mixture with a brush or sponge to thoroughly cover the bark surface only on one-year-old dormant branches.

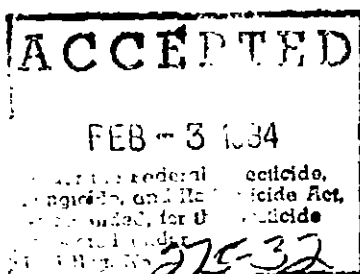
Since this application is intended primarily for stimulating lateral growth from vegetative buds on one-year-old dormant wood, application of PROMALIN should be made in late April and early May depending on season and locality. A useful guide is to make the application just as the terminal buds on shoots or spurs are beginning to break. Applications after lateral buds have broken may cause some injury to the tender shoot tips and fail to promote continued shoot growth from that point.

Tank Mix Compatibility

1. PROMALIN may be applied in combination with plant nutrients.
2. A buffer should be added to alkaline spray water to reduce the pH below 8.
3. Fungicides: Benlate[®], Ferbam[®], Polyram[®], Thiram[®], Glyodin[®], Dithane[®] M-45, Orthocide[®] wettable sulfur may be tank mixed with PROMALIN at the recommended timing associated with bloom applications as described under "Rate and Timing of Application" for PROMALIN. When using fungicides, refer to respective labels for directions and precautionary statements.

^aAll States except California.

^bElgetol, Axit, Gullone, Taven, Benchorl, Ferbam, Polyram, Thiram, Dithane M-45, Trigon, Glyodin and Orthocide are trademarks of companies other than Abbott Laboratories.



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.



Chemical and Agricultural
Products Division
Abbott Laboratories
North Chicago, Illinois 60064



List No. 5702
02

promalin[®]
PLANT GROWTH REGULATOR

Active Ingredients
N-(phenyl ethyl)-1H-purine-6-amine 1.8% (w/w)
Gibberellins A₁ 1.8% (w/w)
Inert Ingredients 96.4%

KEEP OUT OF REACH OF CHILDREN

WARNING

Causes eye irritation. Do not get in eyes. Harmful if swallowed. In case of contact, immediately flush eyes with plenty of water. Call a physician.

Store Below 75°F (23°C)

See supplemental labeling for directions for use.

EPA Registration No. 275-32

EPA Est. No. 275-IL-1

Net Contents 20 x 1 Pint Bottles

Lot No.

Not for sale
or use after

