Plant Growth Regulator

Promalin®

Solution

For use on apples, non-bearing pears, and non-bearing sweet cherries.

ACTIVE INGREDIENTS:
N-(phenylmethyl)-1H-purine 6-amine . . . . . . . . . . . 1.8% w/w
Gibberellins A$_4$A$_7$. . . . . . . . . . . . . . . . . . . . . . . . . 1.8% w/w
OTHER INGREDIENTS . . . . . . . . . . . . . . . . . . . . . . . . 96.4% w/w
TOTAL . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . 100.0% w/w

EPA Reg. No. 73049-41
EPA Est. No. 33762-IA-001 List No. 02571

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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).

CONTINUED
5.0 PRODUCT INFORMATION

Promalin® is a plant growth regulator for use on apples, non-bearing pears and non-bearing sweet cherries. When applied according to label directions to healthy, well-managed trees and under favorable weather conditions (See General Instructions), Promalin provides one or more of the following benefits in some varieties:

1. Improve the shape of Red Delicious apples through fruit elongation and development of more prominent calyx lobes (“typiness”). These desirable effects will be more evident in years when natural typiness is limited.
2. Increase fruit size and weight on most apple varieties. Some fruit thinning has been known to occur from the use of Promalin.
3. Increase lateral bud break and shoot growth (branching), and improve branch angle on nursery stock young trees of most apples varieties. This effect provides a better tree framework for early cropping.
4. Increase lateral bud break and shoot growth, and improve branch angle on non-bearing trees of most pear and sweet cherry varieties, including nursery stock. This effect provides a better tree framework for early cropping.

6.0 GENERAL INSTRUCTIONS

- Do not apply this product through any type of irrigation system.
- When a range of rates is indicated, use the concentration and spray volume directed locally by the Valent agricultural specialist, 1-800-6-VALENT (682-5368).
- For optimum effectiveness, thorough spray coverage must be achieved. All parts of the plant must receive the spray or desired results will not occur. On bearing trees, direct approximately 85% of the spray volume into the upper two-thirds of the trees.
- Promalin applications made under slow drying conditions (cool to warm temperatures, medium to high relative humidity, and no wind) will increase absorption by the plant, thus optimizing effectiveness. Night-time applications are encouraged when day-time conditions are not conducive to slow drying conditions.
- Do not apply Promalin when air temperatures are lower than 40°F or greater than 90°F.
- For optimum results, have the water pH near neutral (pH 7) and always below 8.5.

- Rainfall or overhead irrigation within 6 hours after spraying will often reduce the activity of Promalin.
- Compatibility: The Promalin Application Instructions refer to use of the product alone. Data concerning the compatibility of Promalin with other agricultural compounds is not available. Valent does not assume responsibility for unexpected results due to the tank mixing of Promalin with other products.

7.0 APPLICATION INSTRUCTIONS FOR FRUIT DEVELOPMENT

7.1 Rate and Timing

1. Single Application for Improved Typiness and Size:
   Make a single application of 1-2 pints of Promalin per acre from early king bloom to the early stages of petal fall of the side blossoms.
2. Split Applications for Improved Typiness and Size:
   When the bloom period is prolonged, two applications give the best results. Make the first application of 0.5 to 1 pint of Promalin per acre at the beginning of the bloom period, from early king bloom to the early stages of petal fall of the side bloom. Make the second application of 0.5 to 1 pint of Promalin per acre 3 to 21 days later, or when the remainder of the canopy comes into bloom. Do not exceed the maximum indicated rate of 2 pints per acre for the combined sprays.

7.2 Spray Volume

Apply Promalin in a sufficient amount of water to ensure thorough, but not excessive, coverage. Adjust water volumes based on tree size and spacing. A spray volume of 75-150 gallons/acre is adequate for most orchards. Excessive spray application volumes that result in spray runoff have been known to reduce product performance.

8.0 APPLICATION INSTRUCTIONS FOR LATERAL BRANCHING AND TREE DEVELOPMENT

8.1 Rate and Timing

1. Application for Branching:
   A single foliar application of Promalin or a Promalin-latex paint spot application is applied to apples, non-bearing pears, and non-bearing sweet cherry trees, including nursery stock, to increase lateral bud break and shoot growth, improve branch angles, and provide a better tree framework for early cropping.
Table 1 - Foliar Applications

<table>
<thead>
<tr>
<th>Crop</th>
<th>Rate</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Apples</strong> (Nursery and Orchard)</td>
<td>125-500 ppm¹ (0.25-1 pint Promalin per 5 gallons of spray solution)²</td>
<td>For orchard trees (apples and non-bearing pears), apply at 1-3 inches of new terminal growth.</td>
</tr>
<tr>
<td><strong>Non-bearing Pears</strong> (Nursery and Orchard)</td>
<td>250-1,000 ppm (0.5-2 pints Promalin per 5 gallons of spray solution)²</td>
<td>For nursery stock (apples, non-bearing pears and non-bearing sweet cherries) treat after trees have reached a terminal height at which lateral branching is desired.</td>
</tr>
<tr>
<td><strong>Non-bearing Sweet Cherries</strong> (Nursery only)</td>
<td>250-1,000 ppm (0.5-2 pints Promalin per 5 gallons of spray solution)²</td>
<td></td>
</tr>
</tbody>
</table>

¹parts per million
²Do not exceed 2 pints per acre.

Table 2 - Latex Applications

<table>
<thead>
<tr>
<th>Crop</th>
<th>Rate</th>
<th>Timing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Apples</strong> (Nursery and Orchard)</td>
<td>5,000 - 7,500 ppm¹ (0.2-0.33 pint (3.2-5.3 fluid ounces) Promalin per pint of latex paint)</td>
<td>Apply in the spring when terminal buds begin to swell but before shoots emerge.</td>
</tr>
<tr>
<td><strong>Non-bearing Sweet Cherries</strong> (Orchard only)</td>
<td>250-1,000 ppm (0.5-2 pints Promalin per 5 gallons of spray solution)²</td>
<td></td>
</tr>
</tbody>
</table>

¹parts per million

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

9.0 STORAGE AND DISPOSAL

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

Pesticide Storage: Store below 75°F (24°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: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact Ag Container Recycling Council at 202-861-3144 or www.acrecycle.org. If recycling is not available, 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.

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

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Products That Work, From People Who Care is a registered trademark of Valent U.S.A. Corporation.

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