

COMMERCIAL

PROMALIN\*  
PLANT GROWTH REGULATOR Solution  
Emulsifiable concentrate

GUARANTEE:

Benzyladenine..... 1.8% (W/W)  
Gibberellins A<sub>4</sub>A<sub>7</sub> ..... 1.8% (W/W)

Store below 23°C

REGISTRATION NO. 27137 PEST CONTROL PRODUCTS ACT  
KEEP OUT OF REACH OF CHILDREN

CAUTION – EYE IRRITANT  
READ LABEL AND ATTACHED BROCHURE BEFORE USING

Valent BioSciences Corporation  
870 Technology Way  
Libertyville, Illinois 60048  
USA-800-323-9597

Canadian Agent:  
Valent BioSciences Canada, Ltd.  
40 King Street West, Suite 2100  
Toronto, Ontario M5H 3C2  
416-860-6516

Net Contents: 500 mL

**PRECAUTIONS:  
KEEP OUT OF REACH OF CHILDREN  
WARNING**

Causes eye irritation. Do not get in eyes. Harmful if swallowed.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue labels in the U.S., visit CropLife Canada's website at: [www.croplife.ca](http://www.croplife.ca)

- Wear long pants, a long-sleeved shirt, shoes plus socks, chemical-resistant gloves and goggles or a face shield during mixing/loading, application, clean-up, and repair activities.
- Do not re-enter or allow re-entry into treated areas until 12 hours after application.

**ENVIRONMENTAL HAZARD**

- Do not apply directly to aquatic habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs, or wetlands) and estuarine/marine habitats. Do not contaminate the above aquatic habitats when cleaning and rinsing spray equipment or containers.

**FIRST AID**

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

**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 centre or doctor for treatment advice.

**If swallowed:**

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**TOXICOLOGICAL INFORMATION:**

Treat Symptomatically

**DISPOSAL**

Do not reuse this container for any purpose. This is a recyclable container and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty, rinsed container unsuitable for further use.

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**DIRECTIONS FOR USE**

PROMALIN is a plant growth regulator for use on Red Delicious apples. PROMALIN improves the shape of Red Delicious apples through elongation of fruit and development of more prominent calyx lobes. These desirable effects will be most evident in years when natural typiness is limited due to temperatures in the range of 18°-32°C following bloom. PROMALIN has been shown to increase weight of individual fruit.

Some thinning may occur when PROMALIN is applied at the higher rate.

**APPLICATION RATE**

Use 1.2 L to 2.3 L of PROMALIN per hectare in 500 to 2000 L of final spray solution per hectare. The spray mixture should be used as a fine spray. Use a properly calibrated and adjusted sprayer that ensures uniform and complete coverage of all foliage. Spray volume should be adjusted to tree size and density. This is equivalent to a sprayer nozzled for a standard 5m tree height on a 6m by 6m spacing.

Airblast application: do not direct spray above plants to be treated. Turn off outward-pointing nozzles at row ends and outer rows. Do not apply when wind speed is greater than 16 km/h at the application site as measured outside of the treatment area on the upwind side.

**TIMING OF APPLICATION**

1. Single application should be made between 40% and 80% king bloom to early petal fall. In those areas where prolonged bloom occurs, multiple applications should be made at 5 to 7 day intervals. Do not, however, exceed a total of 2.4L of PROMALIN per hectare.
2. To minimize excessive spray drift, apply when air is calm.

3. 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.
4. Rainfall within six hours after spraying reduces activity of PROMALIN.
5. Do not apply PROMALIN when air temperatures are lower than 5°C or greater than 32°C.
6. Observe a minimum interval to harvest of 28 days after treatment.

#### 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.

#### APPLICATION NOTES AND RESTRICTIONS

DO NOT apply PROMALIN in more than 2000 L of spray per hectare.

DO NOT apply by aircraft.

#### INSTRUCTIONS FOR USE ON LILIES (FIELD AND GREENHOUSE)

Promalin may be applied to lilies to decrease yellowing and necrosis of lower leaves and delay flower senescence. Gradual leaf yellowing usually begins near or before visible bud stage. Post-harvest leaf yellowing may be dramatic with rapid leaf yellowing occurring on finished plants prior to their sale. When used preventatively, Promalin can be inhibit both types of leaf yellowing on Easter and LA Hybrid lilies. Additionally, an application of Promalin to flower buds has shown to delay flower senescence, a secondary effect of applying gibberellins to lilies.

Apply with standard spray equipment. Avoid high spray pressure, which can cause "misting" of spray particles. These very small spray particles may deposit on immature foliage and contribute to unwanted stem elongation. For optimum effectiveness, thorough spray coverage must be achieved; only plant parts covered with spray solution will be protected from leaf yellowing. Leaves or parts of leaves not covered with Promalin will not be protected from chlorosis.

An effective dose of Promalin is strongly dependent on application volume. Plant response can vary if a given rate is applied at different spray volumes. Uniformity of spray solution is equally important. **For foliar applications uniformly apply 1.9 L of finished spray solution to 10 m<sup>2</sup> of bench area.** When making directed applications to lilies, apply enough solution to ensure coverage of the lower leaves, but do not apply more than 15 ml of finished solution per plant, as Prolamin applied to soil can contribute to unwanted stem elongation.

Differences in plant response to Promalin due to differences in plant surfaces, leaf orientation, and plant structure are possible. Extreme temperatures can influence plant response to Promalin. It is recommended that Promalin be applied during morning or late afternoon hours, or when plants are not under environmental stress.

Avoid direct contact of spray solution to immature leaves. **Spray solution contacting immature leaves may result in unwanted stem elongation.**

#### DIRECTIONS FOR USE

Hosts: Lilies-oriental, asiatic, asiflorum hybrids

Lilies-forced Easter

Rate (ai/unit area):50-100 ppm 6-BA + 0.1% Tween 20

25-100 ppm 6-BA + 0.1% Tween 20

#### Application:

Apply 50-100 ppm as a foliar spray to the entire plants of oriental, asiatic and asiflorum lilies at bud stage and one day before cold storage to reduce leaf yellowing and delay flower senescence following the cold storage period; one application only.

Apply 25-100 ppm to forced Easter lilies leaves at bud stage to reduce leaf yellowing; one application only. **Direct application to lower leaves. Application to immature leaves may result in unwanted stem elongation.**

#### Rate Conversion Table

mls of Promalin needed for final desired concentration in water

Total spray volume	25 ppm solution	50 ppm solution	100 ppm solution
1 L	1.4	2.8	5.6
2 L	2.8	5.6	11.2
10 L	14	28	56
50 L	70	140	280
100 L	140	280	560
500 L	700	1,400	2,800

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