

**MASTER LABEL**

**Primary Product name: ProGibb 4% Plant Growth Regulator Solution**

Active Ingredient:

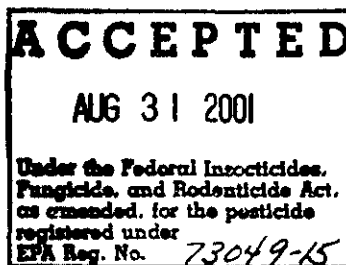
Gibberellic Acid.....4.0% w/w

Inert Ingredients.....96.0% w/w

Total.....100.0% w/w

EPA Registration No. 73049-15

Valent Biosciences Corporation  
870 Technology Way  
Libertyville, IL 60048



2761

**SUB LABEL I**

**ProGibb 4% Plant Growth Regulator Solution.**

For use on grapes, citrus, banana, blueberry, stone fruit, strawberry, cranberry, artichoke, carrot, celery, cucumber, lettuce for seed, melon, **pepper**, potato seed, rhubarb, spinach, and hops.

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ProGibb® 4%  
Plant Growth Regulator  
SOLUTION  
For agricultural use.

Active Ingredient:  
Gibberellic Acid.....4.0% w/w  
Other Ingredients.....96.0% w/w  
Total.....100.0% w/w

ProGibb 4% liquid contains approximately 1.0gram active ingredient per fluid ounce of formulated product.

**KEEP OUT OF REACH OF CHILDREN  
WARNING - AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

For MEDICAL and TRANSPORT Emergencies ONLY Call 24 Hours A Day 1-800-892-0099. For All Other Information Call 1-800-6-VALENT

EPA Registration No. 73049-15  
EPA Establishment No.

Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

Net Contents: \_\_\_  
This container will treat \_\_\_ acre at the maximum use rate, as recommended for use on \_\_\_\_\_.

<b>FIRST AID</b>	
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
<p>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.</p>	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**WARNING**

Causes substantial but temporary eye injury. Harmful if inhaled or absorbed through skin. Do not get in eyes or on clothing. Avoid breathing vapor or spray mist, and avoid contact with skin.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long sleeved shirt
- Long pants
- Chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Follow 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.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**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 cleaning of equipment or disposing of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS**

**FLAMMABLE!** Keep away from heat and open flame.

**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 agency responsible for pesticide regulation.

**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 12 hours.

**EXCEPTION:** If the product is soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and viton
- Shoes plus socks
- Protective eyewear

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:**

Keep containers tightly closed when not in use. Keep away from heat and open flame.

**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:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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.

**GENERAL DIRECTIONS FOR USE**

Use only as directed. The label should be read thoroughly and understood before making applications. Keep out of reach of children.

Do not apply this product through any type of irrigation system.

**Application recommendations:**

ProGibb 4% contains gibberellic acid, which is an extremely potent plant growth regulator; when applying plant growth regulators, deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, may result in undesirable effects. Always consult the Valent agricultural specialist in your area for the spray regimen best suited to your conditions.

- Do not apply to plants under pest, nutritional, or water stress.
- When a range of rates is indicated, use the concentration and spray volume recommended locally by the Valent agricultural specialist.
- For optimum effectiveness, thorough spray coverage must be achieved; all parts of the plant or crop must receive the spray or desired results will not occur. Prepare solution concentrations by mixing the required amount of product with water in a clean, empty spray tank. Dispose of any unused spray material at the end of each day following local, state or federal law.

- For best results, the water pH should be around 7.0, and always below 8.5.
- ProGibb 4% 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.
- Product persistence: ProGibb 4% should be re-applied if significant rain occurs within 2 hours of application.
- Compatibility: Except when specifically noted, this ProGibb 4% spray guidelines refer to the use of the product alone. The use of surfactants and other additives has been reported to be beneficial. Data concerning the compatibility of ProGibb 4% with other agricultural compounds, except DiPel DF and XenTari DF, are not available. Valent Biosciences does not assume responsibility for unexpected results due to the tank mixing of ProGibb 4% with other products not recommended on this label.
- DO NOT apply using ULV application methods. For aerial applications spray volumes must be greater than 2 gallons per acre (10 gallons per acre for tree crops).
- No preharvest interval is required for this product.

• **SPRAY GUIDELINES FOR CROP CATEGORIES**

• **GRAPE**

For all grapes, application by ground sprayer is recommended. Apply as a concentrate or dilute spray in sufficient water volume to ensure thorough wetting. It is important to wet all flower clusters or berries thoroughly. For cultivar specific spray rates and timings, see accompanying tables.

<b>SEEDLESS TABLE GRAPE</b>	
<b>CLUSTER STRETCH SPRAYS</b>	
<b>OBJECTIVE/BENEFIT</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
For cluster elongation and looser cluster forms. To reduce costs of thinning, allow better air circulation to aid in the control of bunch rot, and increase light penetration to aid in sugar development.	Make one to three applications before bloom when flower clusters are 2 to 7 inches long.
<b>CROP/CULTIVAR</b>	<b>RATE (grams a.i. /acre)</b>
Perlette Seedless	8-24
Flame Seedless	8-24
Thompson Seedless	8-24
Raisin	8-24
Other Seedless Grapes	No recommendations are available at this time.



<b>SEEDLESS TABLE GRAPE</b>	
<b>BERRY THINNING SPRAYS</b>	
<b>OBJECTIVE/BENEFIT</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
For decreased berry set, reduced hand-thinning costs, and hastened maturity.	Make one to four applications during bloom. Only 1-2 applications for "Other Seedless Grape". When the bloom period is extended, subsequent sprays should be made 1 to 7 days after the first application
<b>CROP/CULTIVAR</b>	<b>RATE (grams a.i. /acre)</b>
Perlette Seedless	No recommendations available for this variety/timing at this time.
Flame Seedless	3-16
Thompson Seedless	8-20
Raisin	3-12
Other Seedless Grapes	0.5-12
<b>NOTE:</b>	
<ul style="list-style-type: none"> <li>• Higher amounts or multiple applications may cause an excess of shot berries or over-thinning, especially in young vines or vines with high vigor.</li> <li>• For "Other Seedless Grapes" use caution as some of the new cultivars are very responsive and may over-thin easily. A grower should consult the Valent representative or local specialist before thinning cultivars with which he has no familiarity.</li> </ul>	

<b>SEEDLESS TABLE GRAPE</b>	
<b>BUMP SPRAY</b>	
<b>OBJECTIVE/BENEFIT</b>	<b>APPLICATION TIMING/RECOMMENDATIONS</b>
Thompson Seedless	
To help initiate the beginning of the berry growth period.	Make one application of 16-24 grams a.i./acre during the period between the last thinning spray and the first sizing spray.

<b>SEEDLESS TABLE GRAPE</b>		
<b>BERRY SIZING SPRAYS</b>		
<b>OBJECTIVE/BENEFIT</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>	
For larger berries and larger clusters when used in conjunction with established girdling and thinning practices	Make one to four applications beginning when the average berry size reaches "target" diameter (See below). Timing of the subsequent sprays will be dictated by experience in the vineyard and temperatures occurring between sprays. Sprays made after 15-20 days from the first sizing spray are less effective.	
<b>CROP/CULTIVAR</b>	<b>Target Berry Diameter *</b>	<b>RATE (grams a.i. /acre)</b>
Perlette Seedless	4-5 mm	32-128
Flame Seedless	6-9 mm	20-128
Thompson Seedless	3-5 mm	32-128
Raisin	3-5 mm	4-20
Other Seedless Grapes	3-14 mm	8-60
<b>*Target average berry diameter for the first application</b>		
<b>NOTE:</b>		
<ul style="list-style-type: none"> <li>• In some growing regions and for some cultivars, high amounts of gibberellic acid may reduce fruitfulness (cluster counts) the following year.</li> <li>• High amounts of gibberellic acid may also delay berry skin color development, sugars accumulation and overall maturation.</li> <li>• A grower should consult the Valent representative or local specialist before sizing cultivars with which he has no familiarity.</li> </ul>		

<b>SEEDED GRAPES</b>			
<b>BERRY SIZING SPRAYS</b>			
<b>OBJECTIVE/BENEFIT</b>		<b>APPLICATION TIMING/ RECOMMENDATIONS</b>	
To increase berry size in listed cultivars; and also to reduce berry shrivel in Emperor.		Make one application during the indicated berry diameter range. Application can be made as a whole vine spray, or as a spray or dip directly to the cluster.	
<b>CROP/CULTIVAR</b>	<b>Berry Diameter (mm)*</b>	<b>Whole vine spray. Rate in grams a.i. /acre</b>	<b>Direct spray to the cluster only or dip the clusters. Rate in ppm's of a.i.</b>
Emperor	12-16	20	40-50
Red Globe	12-18	20	40-50
Calmeria	12-16	20	40-50
Christmas Rose	12-16	20	40-50
Rogue	12-16	20	40-50
Queens	12-15	20	40-50
* Predominant average berry diameter for this application.			
NOTE:			
<ul style="list-style-type: none"> <li>• The whole vine application may reduce fruitfulness (cluster counts) the following year.</li> <li>• High amounts of gibberellic acid may also delay berry skin color development, sugars accumulation and overall maturation.</li> <li>• A grower should consult the Valent representative or local specialist before sizing cultivars with which he has no familiarity.</li> </ul>			
<b>OBJECTIVE/BENEFIT</b>		<b>APPLICATION TIMING/RECOMMENDATIONS</b>	
To increase berry size		Make one application 3-5 days after full bloom, but before shatter begins.	
<b>CROP/CULTIVAR</b>	<b>RATE (grams a.i. /acre)</b>		
Black Corinth (Zante Currant)	1-12		

<b>WINE GRAPE</b>	
<b>OBJECTIVE/BENEFIT</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
<p>To increase cluster length and improve air circulation and light penetration within the cluster. Under certain conditions this application may help reduce the incidence of bunch rot and sour rot.</p> <p>A grower should ALWAYS consult the Valent representative or the local agricultural specialist before making this application if he has no prior experience with this application.</p>	<p>Make a single spray. Apply when the clusters found in the dominant shoots arising from buds on count spurs are starting to elongate and show separation of the uppermost flower groups. This timing usually coincides with average cluster length of 3-4 inches (1-5 inch overall cluster length range). For each cultivar, follow the rate directions given on the table below. Use 100 gallons of water per acre.</p>
<b>CROP/CULTIVAR</b>	<b>RATE (grams a.i. /acre)</b>
Palomino Sauvignon Blanc Tinta Madeira	0.4-1
Aleatico Carignane Chardonney Chenin Blanc French Colombard Pinot Noir Valdepenas	1-2
Barbera Petite Sirah Zinfandel	2-4
Green Hungarian	4-8
Grenache Alicante	8
Salvadore	8-16
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• DO NOT make this application less than three weeks before anticipated full bloom.</li> <li>• This application will most likely cause some reduction in yield of seeded wine grape cultivars. This reduction in yield may result from: a) increase in shot berries in the year of application; b) reduction in fruitfulness (cluster counts) in the first and second year following the application.</li> </ul>	

- **CITRUS**

For citrus, apply in sprays of sufficient water volumes to ensure thorough fruit wetting. In most cases, this application will cause some drop of older mature leaves; this drop of older leaves is inconsequential. However, application to trees of low vigor or under stress (pest, nutritional, or water, etc) may cause severe leaf and/or fruit drop. Do not apply in white wash sprays in which lime or other caustic material has produced a high pH in the spray tank. Applications of copper fungicides and/or oils within three weeks (before or after) the ProGibb 4% application may result in significant leaf drop and fruit drop.

CITRUS: FIELD APPLICATIONS			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING/ RECOMMENDATIONS
Navel Orange	To delay rind aging, reduce physiological disorders (e.g., rind staining, water spotting, sticky or tacky surface, puffy rind and rupture under pressure), and produce a more orderly harvesting pattern.	16-48	<p>Make one or two applications as a concentrate or dilute spray.</p> <p>1) Early application: spray approximately 2 weeks prior to color break (typically August- November). This timing causes the greatest delay in rind aging and produces the firmest rind possible.</p> <p>AND/OR</p> <p>2) Late spray: one application after marketable color (typically October – December). This late spray may cause re-greening.</p>
Valencia Orange (For California and Arizona use only)	To reduce rind creasing and to delay rind aging and softening	40-80	Make a single application as a concentrate or dilute spray in August to October to target crop of young fruit.
<p>NOTE:</p> <ul style="list-style-type: none"> <li>Do not apply the early spray to groves that may be harvested early, as fruit coloring will be delayed. Do not apply from January through July, as production may be reduced the following year.</li> <li>Slower color development should be expected in the target crop. Increased re-greening of mature fruit may occur. After marketable color is achieved, treatment effects may be reduced the longer treated fruit remain on the tree.</li> </ul>			
All Round Oranges (For Florida use only)	To delay aging and softening of the rind, and to reduce creasing and puffiness.	20-60	Make a single application in August to October to trees with a target crop of young fruit. The addition of pure organo-silicone type surfactant at 0.05% (6 fl. Oz. In 100 gallons) may be beneficial.

<b>CITRUS: FIELD APPLICATIONS (con't)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (grams a.i./acre)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Lemon/Lime	To decrease the amount of small ripe fruit and produce a more desirable production pattern relative to market demand.	10 – 32	Make a single application when target crop is ½ to ¾ full size, but still green.
NOTE: <ul style="list-style-type: none"> <li>When applied two years in a row, an even larger difference in harvest pattern and maturity may occur.</li> </ul>			
Tangerine Hybrids (Orlando, Robinson, Minneola, Sunburst, and others)	To delay disorders associated with rind aging, puffiness, and softening, and to increase peel strength, of tangerine hybrids	20 – 40	Make one spray application two weeks prior to color break. Apply as a dilute spray.
NOTE: <ul style="list-style-type: none"> <li>Do not apply if early harvest is planned. Do not apply after coloring as pre-harvest rind staining may occur. Application during coloring may cause variation in rind color development.</li> </ul>			
Grapefruit (Not for use in California)	To delay disorders associated with rind aging (e.g., puffiness, softening, and orange coloration), prevent preharvest drop of mature fruit, increase peel strength, reduce water loss during storage, and produce a more orderly harvesting pattern.	16 – 48	Make one or two dilute spray applications in sufficient volume to ensure coverage. Do not exceed 20 ppm a.i. in spray solution.  EARLY: Make application two weeks prior to color break. Apply as a dilute spray (AUG-SEP). AND/OR LATE: Make application after marketable color has developed (OCT-DEC).
NOTE: <ul style="list-style-type: none"> <li>Do not spray groves that may be harvested early since fruit coloring will be delayed. Treated fruit may re-green if allowed to remain on the tree for extended periods. Application made after December, or when trees begin to break dormancy, may adversely affect new crop. Do not use concentrate sprays. Results may vary from season to season depending on environmental conditions. The delay in rind aging is greatest when spray is applied before color change. This spray timing produces the firmest rind possible.</li> </ul>			

CITRUS: FIELD APPLICATIONS (con't)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i./acre)	APPLICATION TIMING/ RECOMMENDATIONS
Star Ruby Grapefruit (Not for use in California)	To reduce early-season small fruit drop of Star Ruby Variety thereby increasing yields.	25-35	Make a single dilute application during the bloom period.
NOTE: <ul style="list-style-type: none"> <li>Results may vary from season to season depending on environmental conditions. Maintain a well-balanced fertilization and watering program.</li> </ul>			
Clementine Mandarin	To increase fruit set and yield	1-8	Make one to two applications from 50% petal fall up to 3 weeks after petal fall. Use a dilute spray with sufficient spray volume for adequate coverage of tree canopy.
NOTE: <ul style="list-style-type: none"> <li>The number of applications depends upon amount of desired fruit set. Generally, more fruit will be set by 2 applications, earlier applications, higher rates, and climactic conditions more favorable to set. Differences in the crop strain may also interact with the above factors to affect the degree of fruit set achieved. Reductions in final fruit size can occur as a result of excessive fruit set.</li> </ul>			
Tangerine Hybrids (Orlando, Robinson, Minneola, Sunburst, and others) (Not for use in California)	To increase fruit set and yield. The number of applications depends on desired fruit set.	8 - 30	Make one to two applications during the bloom period. Apply as a dilute spray.
NOTE: <ul style="list-style-type: none"> <li>Fruit sizes may be reduced and color development slightly retarded. A slight increase in mature leaf drop may occur in trees under stress.</li> </ul>			
Navel and Valencia Orange (For Florida use only)	To enhance fruit set and yield.	15-25	Make a single application in December - January. Apply in 125-175 gallons of water per acre with a pure organo-silicone type surfactant at 0.05% (6 fl. oz/100 gallons).
Ambersweet Orange (For Florida use only)	To enhance fruit set and yield.	15-25	Make a single application in January. Apply in 125-175 gallons of water per acre with a pure organo-silicone type surfactant at 0.05% (6 fl. oz/100 gallons).



<b>CITRUS: FIELD APPLICATIONS (con't)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (grams a.i./acre)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Grapefruit (Not for use in California)	To enhance fruit set, size and yield	15-25	Make a single application in December - January. Apply in 125-175 gallons of water per acre with a pure organo-silicone type surfactant at 0.05% (6 fl. oz/100 gallons).

<b>CITRUS: POSTHARVEST APPLICATIONS</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Lemon	To delay fruit senescence and prolong storage life. The delay in senescence may reduce the incidence of infection by sour rot ( <i>Geotrichum candidum</i> ).	50-100	Add 2 to 4 fluid ounces of product (2 to 4 grams of a.i.) in 10 gallons of storage wax, which has been diluted as per wax label instructions.
Yellow lemons and other mature citrus fruit	To delay aspects of rind senescence and color changes	50-100	Add 2 to 4 fluid ounces of product (2 to 4 grams of a.i.) in 10 gallons of storage wax, which has been diluted as per wax label instructions.

• FRUIT CROPS

FRUIT CROPS			
CROP/CULTIVAR	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING / RECOMMENDATIONS
Banana	To stimulate plant growth, and to overcome the effects of stress caused by insect, disease or adverse weather. These applications may also improve fruit size and quality and overall yield.	1 -6	Apply by air or ground equipment once every 30 to 90 days throughout the year. Use sufficient water volume to achieve good coverage of the foliage. Make more frequent applications (monthly) during the 6 months prior to anticipated weather stress periods.
Blueberry (Not for use in California)  <u>Highbush:</u> Coville, Jersey, Stanley, Earliblue, Weymouth, Walcott, Berkeley, Blueray, Bluecrop, 1316A, Concord, and others	To improve fruit set.	40-80	Make a single application of 80 grams a.i. in 40 to 100 gallons of water/acre. The application should be made at full bloom (when 75% of the flowers are fully open).  OR Make two applications at 40 grams a.i./acre in 40 to 100 gallons of water. Make the first application at full bloom, and the second one within 10-14 days of the first one. For Weymouth, application can be delayed up to two weeks after bloom to increase size of "shot" berries.
Blueberry: (Not for use in California) <u>Rabbiteye:</u> Aliceblue, Beckyblue, Bonita, Brightwell, Climax, Delite, Tiftblue, Woodward, and others.	To improve fruit set.	40-80	Make a single application of 40 to 80 grams a.i./acre in 40 -to- 100 gallons of water per acre when most of the flowers are elongated but not yet open (bloom Stage 5).  OR Make two to four applications 10-to-14 days apart starting at bloom Stage 5. Spray 20 to 40 grams a.i./acre in 40 to 100 -gallons of water per application.

FRUIT CROPS (Con't)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING / RECOMMENDATIONS
Sweet Cherry	To produce larger, brighter colored, firmer fruit.	16-48	Apply a single spray when the fruit is translucent green to straw colored. Use sufficient water volume to ensure thorough wetting.
NOTE:			
<ul style="list-style-type: none"> <li>Color development and harvest date may be slightly delayed.</li> </ul>			
Red Tart Cherry (Not for use in California)	To maintain and extend high fruiting capacity of tart cherry trees and reduce the occurrence of "blind" nodes. Treatment will cause bud differentiation, which is apparent the year after application. Therefore, changes in shoot, spur, and flower production will not be evident until two or three years after program initiation. Applications must be applied annually to ensure vegetative development and subsequent yield improvement year after year.	4-18	Apply one spray 14-to-28 days after bloom. Optimum timing is defined as that stage when 3-to-5 terminal leaves have fully expanded, or, at least 1-to-3 inches of terminal shoot extension has occurred. Use 4 to 18 grams a.i./acre, depending on tree age and vigor (See Table below). Apply as a concentrate or dilute spray in sufficient water volume to ensure thorough wetting.
NOTE:			
<ul style="list-style-type: none"> <li>Rates are based on expected normal tree vigor at various ages. Adjust rate according to tree vigor. If trees are vigorous, use lowest recommended rates. Lowest rates should also be used on trees that have been heavily pruned or hedged. Use higher rates for trees low in vigor and weak in shoot and spur production. Excessive application rates will increase vegetative growth at the expense of fruit production the following year. Applications will not improve growth of trees under stress conditions, such as nutritional, moisture, or pest. Best results will be obtained when combined with good cultural practices.</li> </ul>			

RECOMMENDED APPLICATION RATES (GRAMS A.I./ACRE)  
FOR TART CHERRY TREES BY AGE

Tree Age (years)	Rate (grams a.i./acre)
6-10	4-6
11-15	8-10
16-20	10-14
20 + years	14-18

FRUIT CROPS (con't)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING/ RECOMMENDATIONS
Stone Fruit Group	To increase fruit firmness and improve fruit quality in the season of application	16-32	Apply as a single spray one to 4 weeks prior to the beginning of the harvest period. Use sufficient water to achieve complete coverage of fruits and foliage.
NOTE:			
<ul style="list-style-type: none"> <li>This application may cause reduction in flower counts the year following the application, particularly if it is made during the months of May through July.</li> </ul>			
Italian Prune (Not for use in California)	To reduce internal browning, improve quality, and increase size.	16-48	Make a single application four to five weeks before expected harvest. Apply in sufficient water volume to ensure thorough wetting.
NOTE:			
<ul style="list-style-type: none"> <li>Color development and harvest may be slightly delayed. May reduce bloom the following season.</li> </ul>			

NON BEARING STONE FRUIT TREES			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING/ RECOMMENDATIONS
Non Bearing Stone Fruit (Not for use in California)	To reduce flowering and fruiting in young stone fruit trees in order to minimize the competitive effect of early fruiting on tree development.	20 - 80	Make a single application during the period of flower bud initiation for the following year. Consult with the Valent representative or local horticulturist for timings and rates for specific cultivars in your area. Use sufficient water to achieve good coverage of the canopy.
NOTE:			
<ul style="list-style-type: none"> <li>Do not spray trees in the first year. Treat in the second season for reduction of flowering in the third season, and again in the third season if flower reduction and fruiting is desired in the fourth season. Treat only trees that are in good physiological condition. Discontinue treatment the year before desired harvest.</li> </ul>			

<b>FRUIT CROPS (Con't)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (grams a.i. /acre)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Strawberry (Not for use in California)	To increase runner production of mother plants.	15-25	Make a single application to mother plants 10 – 30 days after planting. Plants should have 1-6 leaves at spraying. Apply 100 gallons spray/acre to point of run-off.
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• Not for use on fruiting plants. Treatments may not be effective on plantings set out after mid-May.</li> <li>• Response varies with cultivar and location. Consult your Valent representative or local horticulturist for specific recommendations.</li> </ul>			
Cranberry (Not for use in California)	To reduce or completely eliminate the crop in the year of application	10-50	Make a single application at early bloom (2-5% scatter bloom). Use sufficient water to ensure thorough coverage.
<p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>• Applications made later than indicated may result in no effect or actually result in increased fruit set (opposite effect).</li> <li>• Responses will vary with cultivar, age of the bog and location. Consult the Valent representative or local specialist for specific information.</li> </ul>			

• VEGETABLE CROPS

VEGETABLE CROPS			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. / acre)	APPLICATION TIMING/ RECOMMENDATIONS
Artichoke	To accelerate maturity and shift harvest to an earlier date	10 – 20	For perennials: apply one to three applications at bud initiation stage. For annuals: apply one to four applications at 2-week intervals, beginning at the fourth true leaf. Use sufficient water volume to ensure thorough wetting of the entire plant (leaves, stems and buds).
Carrots, Fresh and Processing	To delay leaf senescence. Maintaining vigorous foliage may reduce the incidence of infection by <i>Alternaria dauci</i> .	1-6	Make the first application 4 –6 weeks after emergence using commercial ground or aerial equipment with spray concentrations of 20-30 ppm. A second spray 14 days later may be required to achieve the desired amount of foliar recovery in severe disease situations or cool weather. Do not apply more than twice per crop.
NOTE:			
<ul style="list-style-type: none"> <li>Dilutions of greater concentration can increase the risk of excessive top growth, particularly with a second application.</li> </ul>			
Celery	To increase plant height and yield and to overcome stress due to cold weather conditions or saline soils, and obtain earlier maturity.	2.5 – 10	Make a single application one to four weeks prior to harvest. Use 25-to-50 gallons of water per acre by ground application or 5-to-10 gallons of water per acre for aerial application (except in California). Use lower concentrations if applying 3-to-4 weeks before harvest and higher concentrations within 1-to-2 weeks before harvest.
NOTE:			
<ul style="list-style-type: none"> <li>Do not apply by air in California. Do not apply earlier than 4 weeks before harvest as bolting may occur.</li> </ul>			

<b>VEGETABLE CROPS (con't)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (grams a.i. / acre)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Cucumber (Not for use in California)	To stimulate fruit set during periods of cool temperatures.	1-4	Make one application prior to bloom followed by two additional applications at intervals of 10-to-14 days. Up to four applications may be required. Use sufficient water volume for thorough coverage of exposed foliage.
<b>NOTE:</b>			
<ul style="list-style-type: none"> <li>For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.</li> </ul>			
Lettuce for Seed	To obtain uniform bolting and increase seed production	1-4	Apply one to four applications at two-week intervals, beginning at the fourth true leaf. Use sufficient water volume to ensure thorough wetting.
Melon (Not for use in California)	To stimulate fruit set during periods of cool temperatures	1-4	Make one application prior to bloom followed by two additional applications at intervals of 10-to-14 days on cantaloupes and watermelons.
<b>NOTE:</b>			
<ul style="list-style-type: none"> <li>For maximum benefits, vines must be in good condition, except for reduced rate of growth due to cool temperatures.</li> </ul>			



VEGETABLE CROPS (con't)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. / acre)	APPLICATION TIMING/ RECOMMENDATIONS
Pepper (Not for use in California)	To promote plant growth	1-3	Apply one to two sprays in 25-to-50 gallons of water per acre at two-week intervals. Begin sprays 2 weeks after transplanting.
NOTE: <ul style="list-style-type: none"> <li>This use is recommended for areas with short growing seasons, or when low temperatures slow plant growth.</li> </ul>			
Pepper (Not for use in California)	To increase fruit set and promote fruit growth	1-3	Apply one to two sprays in 25-to-50 gallons of water per acre at weekly intervals during the flowering period.
NOTE: <ul style="list-style-type: none"> <li>The high rate is recommended for areas and/or varieties with pollination and/or fruit set problems.</li> </ul>			
Pepper (Not for use in California)	To increase fruit size	1-3	Apply in 25-to-50 gallons of water per acre at the beginning of the picking period.
NOTE: <ul style="list-style-type: none"> <li>The high rate is recommended for plants with heavy fruit loads.</li> </ul>			
Potato seed	To stimulate uniform sprouting to aid in maximum production, more uniform development, fewer late maturing plants, and to break dormancy of newly harvested potatoes that have not had a full rest period.	0.2- 0.4 (grams in 100 gallons)	Dip whole or cut seed pieces in a solution containing 0.2- to-0.4 grams a.i. in 100 gallons of water prior to planting.
NOTE: <ul style="list-style-type: none"> <li>Under high soil temperatures use the minimum concentration for dormant seed. Do not treat rested seed pieces.</li> </ul>			

VEGETABLES (Con't)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING/ RECOMMENDATIONS
Rhubarb	To break dormancy on plants receiving insufficient chilling and to increase marketable yield of forced rhubarb	10 - 20 (grams in 10 gallons)	1) When the rest period is not completely broken, make a single application of 2 fluid ounces (60 ml) of a solution containing 20 grams a.i. in 10 gallons of water to each cleaned crown. 2) When the rest period is broken by cold weather, apply 2 fluid ounces (60 ml) of a solution containing 10 grams a.i. in 10 gallons of water to each cleaned crown.
NOTE:			
<ul style="list-style-type: none"> <li>Keep forcing house temperatures at 40 - 50°F for 24 hours after application. If house is warmer than 50°F, crowns should be covered with plastic. Temperatures above 50°F may lower yields and cause poor stalk color.</li> </ul>			
Spinach (Not for use in California)	To facilitate harvest, increase yield and improve quality of fall and over-winter spinach.	6-10	Apply a single spray 10-to-18 days before each anticipated harvest on fall or over-winter spinach, ideally when daytime temperatures are 40° F-to-70° F and during early morning hours when dew is present on crop. Make applications in 10-to-50 gallons of water per acre by ground sprayer or in a minimum of 5-to-10 gallons of water per acre by air. When applied to promote growth of second cutting, wait until some regrowth has started before spraying. Maximum benefit is obtained when below normal temperatures predominate following application and growth would be otherwise slowed in untreated spinach.
NOTE:			
<ul style="list-style-type: none"> <li>Since the promotion of bolting may occur, do not apply after the mid-winter period or if temperatures may be expected to exceed 75° F within several days of application. Do not apply on spring plantings.</li> </ul>			

• HOPS

CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (grams a.i. /acre)	APPLICATION TIMING/ RECOMMENDATIONS
Hops: Seeded and seedless Fuggle hops and similar varieties adapted to the Northwestern states.	To increase fruit set and yield.	4 - 6	Make a single application in 100-150 gallons of water per acre when vine growth is 5-8 feet in length.

CONVERSION TABLE

ProGibb 4% contains approximately 1 gram of active ingredient per fluid ounce of product

Grams of active ingredient	Fluid Ounces of ProGibb 4%
0.5	0.5 oz
1.0	1 oz.
2.0	2 oz
4.0	4 oz
5.0	5 oz
8.0	8 oz
10.0	10 oz
12.0	12 oz
16.0	16 oz
20.0	20 oz
25.0	25 oz
32.0	32 oz
40.0	40 oz
48.0	48 oz
50.0	50 oz

NOTICE TO USER:

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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**SUB-LABEL II**

**RYZUP®**  
**PLANT GROWTH REGULATOR**  
**SOLUTION**

**For use on rice and cotton.**

29 3 61

**RYZUP®**  
**PLANT GROWTH REGULATOR**  
**SOLUTION**

Active Ingredient:  
Gibberellic Acid.....4.0% w/w  
Inert Ingredients.....96.0% w/w  
Total.....100.0% w/w

RyzUp liquid contains approximately 1.0 gram active ingredient per fluid ounce of formulated product.

**KEEP OUT OF REACH OF CHILDREN**  
**WARNING - AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

For MEDICAL and TRANSPORT Emergencies ONLY Call 24 Hours A Day 1-800-892-0099. For All Other Information Call 1-800-6-VALENT

EPA Registration No. 73049-15  
EPA Establishment No.

Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

Net Contents: \_\_\_\_  
This container will treat \_\_\_\_ acres at the maximum use rate, as recommended for use on \_\_\_\_.

<b>FIRST AID</b>	
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
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.	

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

**WARNING**

Causes substantial but temporary eye injury. Harmful if inhaled or absorbed through skin. Do not get in eyes or on clothing. Avoid breathing vapor or spray mist, and avoid contact with skin.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long sleeved shirt.
- Long pants.
- Chemical-resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and viton.
- Shoes plus socks.
- Protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow 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.

**USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**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 cleaning equipment or disposing of equipment washwaters. Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

**PHYSICAL OR CHEMICAL HAZARDS**

**FLAMMABLE!** Keep away from heat and open flame.

**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 agency responsible for pesticide regulation.

Do not apply this product through any type of irrigation system.

## 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 12 hours.

**EXCEPTION:** If the product is soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and viton.
- Shoes plus socks.
- Protective eyewear.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Keep containers tightly closed when not in use. Keep away from heat and open flame.

**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:** Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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



## GENERAL DIRECTIONS FOR USE

Use only as directed. The label should be read thoroughly and understood before making applications. Keep out of reach of children.

Do not apply this product through any type of irrigation system.

### Application recommendations:

RyzUp contains gibberellic acid which is an extremely potent plant growth regulator; when applying plant growth regulators, deviations from the label directions in the rates, timings, water volumes, or the adoption of untested spray mixes, may result in undesirable effects. Always consult the Valent agricultural specialist in your area for the spray regimen best suited to your conditions.

- Do not apply to plants under pest, nutritional, or water stress.
- When a range of rates is indicated, use the concentration and spray volume recommended locally by the Valent agricultural specialist.
- For optimum effectiveness, thorough spray coverage must be achieved; all parts of the plant or crop must receive the spray or desired results will not occur. Prepare solution concentrations by mixing the required amount of product with water in a clean, empty spray tank. Dispose of any unused spray material at the end of each day following local, state or federal law.
- For best results, the water pH should be around 7.0, and always below 8.5.
- RyzUp 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.
- Product persistence: RyzUp should be re-applied if significant rain occurs within 2 hours of application.
- DO NOT apply using ULV application methods. For aerial applications spray volumes must be greater than 2 gallons per acre.
- No preharvest interval is required for this product.

## RICE

## 1) FOLIAR APPLICATION

USE	OBJECTIVE/ BENEFIT	RATE (oz/acre)	APPLICATION TIMING/ RECOMMENDATIONS
<b>Seedling Applications (Early Season)</b>		1 to 3 fl oz (30 to 90 ml)	At the 1-2 and 4-5 leaf stages of growth
With use of a non-ionic surfactant or in tank mix combination with rice herbicides	May promote vigorous and more uniform seedling growth of rice prior to permanent flood establishment. This may permit earlier flooding (5 to 10 days earlier) of drill or broadcast-seeded rice and is particularly effective on semi-dwarf varieties.	1 to 2 fl oz (30 to 60 ml)	Early flooding may reduce the additional flushing costs associated with a delay in establishing the permanent flood, reduce weed infestations and the number of herbicide applications, and/or promote earlier and more uniform grain maturity.
With some dry and water-based herbicide formulations, or when temperatures will likely average 75° F or less during 14 days after application.		1.5 to 3 fl oz (45 to 90 ml)	
<b>Panicle Extension Applications (Late Season)</b>			
Tank mix with a non-ionic surfactant known to be non-phytotoxic to rice.	To promote main culm and tiller panicle extension. May increase panicle height of rice. This may facilitate harvest efficiency in the field by allowing the rice grain to be cut above the leaf canopy at faster combine speeds and at reduced vegetative load. Grain quality and maturity may be advanced with the promotion of tiller panicle development.	3 to 8 fl oz (90 to 240 ml)	Between split-boot and 100% panicle heading. Heading applications to the first crop may also accelerate re-growth of second crop rice. This may result in earlier second crop maturity and maximized grain yield.
Timing and dosage should be based upon environmental conditions, tank mix combinations with herbicides, and preferred permanent flood practice in relation to rice leaf stage. <b>Do not</b> apply when rice is subjected to drought stress conditions. Foliage may temporarily appear lighter green in color due to accelerated growth rates following RyzUp application.			

## 2) HYBRID RICE SEED PRODUCTION

USE	OBJECTIVE/ BENEFIT	RATE (grams a.i./acre)	APPLICATION TIMING/ RECOMMENDATIONS
Panicle Extension	Improved pollination and seed yield.	20-100	Make 1-5 applications at regular intervals during the heading period to promote main culm and tiller panicle extension.

### For Foliar and Hybrid Rice Seed Production:

#### Mixing Instructions

Fill the treatment tank with half of the final tank mix volume. Add the required amount of RyzUp and mix thoroughly while adding water to the desired final volume. Dispose of any unused spray material at the end of the day.

#### Application Equipment

RyzUp may be applied by aerial or ground spray equipment. As an aerial spray, use a spray system capable of producing a uniform spray pattern of medium to fine spray droplets at 10 gallon per acre (GPA). Apply no less than 3 GPA of total spray volume. Low pressure ground sprayers equipped with boom and flat fan nozzles using 10 to 15 GPA spray volume may be used.

#### Compatibility with Other Chemicals

RyzUp can be tank mixed with most commonly used rice herbicides and fungicides. When applying RyzUp in mixture with Arrosolo<sup>®</sup>, Riverside Propanil<sup>®</sup> 60DF, Stam<sup>®</sup> M4, Stam<sup>®</sup> 80EDF, or Wham!<sup>®</sup> EZ, plus one of their recommended adjuvants, use of an additional surfactant is not necessary. Do not apply RyzUp with Whip<sup>®</sup> IEC or Whip<sup>®</sup> 360.

#### Use Precautions

Avoid drift or accidental application to other crops

### 3) SEED TREATMENT APPLICATION

RyzUp stimulates seed germination and promotes faster and more uniform stand establishment			
USE	OBJECTIVE/ BENEFIT	RATE (fl. oz.)	APPLICATION TIMING/ RECOMMENDATIONS
Seed treatment for rice	<p>May promote germination and emergence for semi-dwarf and tall varieties.</p> <p>May help increase final stand density and uniformity when seed are planted deeper to receive adequate moisture.</p>	0.5 to 2.1 fl oz product in 8-20 fl oz water/100 lbs seed (Equivalent to 15 to 62 ml in 237 to 591 ml water/45 kg seed)	<p>For use with drill or broadcast seeding systems.</p> <p><b>Do not</b> apply RyzUp prior to a 24 hour presoak or to water used for the presoak.</p> <p><b>Do not</b> exceed 2.1 fl oz product/100 lbs of seed (or 62 ml product/45 kg seed)</p>

#### Mixing Instructions

RyzUp may be applied to seed with standard mist treating equipment. For best results, higher treatment volume of 12 to 20 fl oz per 100 pounds of seed (355 to 591 ml/45 kg seed) ensures complete and uniform coverage.

Fill the treatment tank with half of the final tank mix volume. Add the required amount of RyzUp and mix thoroughly while adding water and other co-applied seed treatment products (see Compatibility with Other Chemicals section) to the desired final volume.

An approved dye must be added to distinguish RyzUp treated seed and prevent inadvertent use for food, feed, or oil purposes. Treated seed must be labeled in accordance with the requirements of the Federal Seed Act.

#### Use Restriction

**Do not** use treated seed for food, feed or oil purposes.

#### Compatibility with Other Chemicals

RyzUp is compatible with most commonly used fungicide seed treatments (e.g. Vitavax<sup>®</sup> CT and Dithane<sup>®</sup>), standard dyes, and sticker/binding agents. When preparing tank mixes, ensure adequate physical compatibility and mixing.

**COTTON:**

RyzUp may help to shorten the vegetative growth "lag" phase. This benefit may reduce the time interval needed to develop optimum leaf area and plant height, thus maximizing the potential for earliness and improved yields.

USE	OBJECTIVE/ BENEFIT	RATE (oz/acre)	APPLICATION TIMING/ RECOMMENDATIONS
On young cotton plants	Promote growth and increase seedling vigor	1 to 6 fl oz (30 to 180 ml). Use higher rates (within the indicated range) when temperatures will likely average 75°F or less during the 14 days following application(s).	In-furrow application to seed, or as a foliar application from the cotyledon leaf stage through the 7 leaf/node stage. Repeat applications as needed to a maximum of 3 applications. Applying more often than necessary to achieve the desired height, may result in excessive vegetative growth.

Do not apply RyzUp to cotton plants that are under drought stress. If the cotton plants are under continuous stress, application of RyzUp should be delayed until the stress is alleviated and the plants are beginning to recover.

Avoid drift or accidental application to other crops.

**Mixing Instructions**

Fill the treatment tank with half of the final tank mix volume. Add the required amount of RyzUp and mix thoroughly while adding water to the desired final volume. Dispose of any unused spray material at the end of the day.

**Application Equipment**

RyzUp may be applied by aerial or ground spray equipment. As an aerial spray, use a spray system capable of producing a uniform spray pattern of medium to fine spray droplets at 10 gallon per acre (GPA). Apply no less than 3 GPA of total spray volume. Low pressure ground sprayers equipped with boom and flat fan nozzles using 10 to 15 GPA spray volume may be used.

**Compatibility with Other Chemicals**

Data regarding the compatibility of RyzUp with herbicides used in cotton are not available.

**NOTICE TO USER**

**Seller makes no warranty, express or implied, or 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.**

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**SUB LABEL III**

**ProGibb T&O**  
**Plant Growth Regulator Solution**

**For use on turf and ornamental plants.**

40 3 61

**ProGibb T&O  
Plant Growth Regulator  
Solution**

**For use on turf and ornamental crops.**

Active Ingredient:	
Gibberellic Acid.....	4.0% w/w
Other Ingredients.....	96.0% w/w
Total.....	100.0% w/w

ProGibb T&O liquid contains approximately 1.0 gram active ingredient per fluid ounce of formulated product.

**KEEP OUT OF REACH OF CHILDREN  
WARNING - AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail).

For MEDICAL and TRANSPORT Emergencies ONLY Call 24 Hours A Day 1-800-892-0099.  
For All Other Information Call 1-800-6-VALENT

EPA Registration No. 73049-15  
EPA Establishment No.

Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

Net Contents: \_\_\_\_  
This container will treat \_\_\_\_ acres at the maximum use rate, as recommended for use on \_\_\_\_\_

<b>FIRST AID</b>	
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
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.	



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING**

Causes substantial but temporary eye injury. Harmful if inhaled or absorbed through skin. Do not get in eyes or on clothing. Avoid breathing vapor or spray mist, and avoid contact with skin.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long sleeved shirt
- Long pants
- Chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and viton
- Shoes plus socks
- Protective eyewear

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow 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.

<p><b>USER SAFETY RECOMMENDATIONS</b></p> <p>Users should:</p> <p>Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.</p> <p>Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</p>
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**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 cleaning of equipment or disposing of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS**

**FLAMMABLE!** Keep away from heat and open flame.

**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 agency responsible for pesticide regulation.

**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 12 hours.

**EXCEPTION:** If the product is soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride, and viton
- Shoes plus socks
- Protective eyewear

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter without appropriate protective clothing until sprays have dried.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:**

Keep containers tightly closed when not in use. Keep away from heat and open flame.

**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:**

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or 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.

**GENERAL DIRECTIONS FOR USE ON ORNAMENTAL CROPS, CUT FLOWERS AND TURFGRASS****PRODUCT INFORMATION**

ProGibb T&O is an extremely active plant growth regulator. Care must be used in measuring, diluting, and applying ProGibb T&O.

A foliar application of ProGibb T&O supplies plants with an additional source of the naturally occurring plant growth regulator gibberellin. Gibberellins are involved in numerous plant development processes. Adding gibberellic acid (GA3) promotes a number of desirable effects in floriculture crops including increased flower size, increased flower number, uniform flowering, increased stem elongation, and a decrease in time to flower. Additionally, gibberellin applications have been shown to reduce the minimum temperature required to initiate plant growth and will overcome bud and seed dormancy. In Bermudagrass turf, adding ProGibb T&O will initiate and/or maintain growth and prevent color change during periods of cold stress and will maintain and/or enhance regrowth during summer months.

## **GENERAL INSTRUCTIONS**

When applying plant growth regulators, deviations in rates, timings, or water volumes from the label directions may result in undesirable effects.

For optimum effectiveness, thorough spray coverage must be achieved; only plant parts covered with spray solution will be affected. Plant parts not directly covered with ProGibb T&O will not respond to the application.

An effective dose of ProGibb T&O 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.

When applying foliar applications of ProGibb T&O spray plants to run-off. The actual spray application rate will vary depending on plant size and spacing density. A spray application rate which is effective for 6-inch potted plants spaced at a density of 1 pot per square foot is 2 quarts of finished spray solution per 100 square feet of bench area.

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

## **DETERMINING OPTIMAL APPLICATION RATES**

The rates recommended on this label are ranges and should be used only as a guide.

An optimum ProGibb T&O rate will depend on desired expectations as well as physical and environmental factors. Specific growing practices such as watering, potting media, fertilization, temperature, and light conditions will affect plant responses to a given ProGibb T&O rate.

Results from ProGibb T&O applications are dependent upon timing, rate, frequency of application, and plant vigor at application. ProGibb T&O applications made under slow drying conditions (cool temperatures, low air movement and medium to high relative humidity) will increase absorption by the plant, thus optimizing effectiveness.

To determine optimum use rates, conduct trials on a small number of plants under actual use conditions using the lowest recommended rate. When a range of rates is indicated, use the lowest concentration recommended until familiarity is gained.

**LIMITATIONS**

- For optimum effectiveness, thorough spray coverage must be achieved; all parts of the plant or crop must receive the spray or desired results will not occur.
- Do not apply to plants under pest, nutritional, or water stress. ProGibb T&O will not correct or substitute for treatment of pest, nutrient, or water stresses.
- Do not apply after flower buds show color.
- Do not apply through any type of irrigation system.
- Avoid drift onto non-target species.
- Do not mix ProGibb T&O with pesticides, fertilizers, wetting agents, spreader stickers or other adjuvants.
- Over-application may result in accelerated plant growth/development.
- Do not apply ProGibb T&O to any food crop.
- Do not reuse soil from plants treated with ProGibb T&O.

**MIXING INSTRUCTIONS AND RATE CONVERSION TABLE**

Apply with standard spray equipment set according to manufacturer's recommendations.

ProGibb T&O mixes readily with water. For best results, water pH should be 7.0 and always below 8.5.

**Foliar Applications:** Always make sure application equipment is thoroughly clean before mixing. When preparing ProGibb T&O for use as a foliar spray, fill tank to one half full. Add the recommended amount of ProGibb T&O according to the rate conversion table below. Complete filling the tank. Dispose of any unused spray material at the end of each application following local, state or federal law.

**Rate Conversion Table\***

ppm (parts per million) (GA <sub>3</sub> )	Milliliters (ml) of ProGibb T&O per liter of spray solution	Milliliters (ml) of ProGibb T&O per gallon of spray solution	Fl. oz. of ProGibb T&O per gallon of spray solution
1	0.03	0.1	0.003
5	0.15	0.6	0.02
10	0.3	1.1	0.04
25	0.74	2.8	0.09
50	1.5	5.6	0.19
100	3.0	11.2	0.4
250	7.4	28.0	0.95
500	14.8	56	1.9
750	22.2	84	2.8
1,000	29.6	112	3.8

\*ProGibb T&O is a liquid. Each fluid ounce contains approximately 1.0 gram of active ingredient.

ORNAMENTAL CROPS, CUT FLOWERS AND TURFGRASS

- **The following recommendations are based on results with common cultivars. Differences in responsiveness may vary between cultivars, growing conditions, and cultural management systems. Therefore, prior to widespread usage, test a small number of plants from each cultivar under a specific set of growing and cultural management conditions to verify desired efficacy.**
- **ProGibb T&O is an extremely potent plant growth regulator. The general effects on floriculture crops are to increase plant size through increased stem elongation and leaf and petal expansion. If applied at an improper time, at excessive rates, or too frequently, plants may become long and spindly with weak stems.**

• **SPRAY GUIDELINES FOR ORNAMENTALS**

<b>AZALEA</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Azalea	<p><b>As a Partial Replacement of Cold Treatment to Break Flower Dormancy</b> Applications of ProGibb T&amp;O have been shown to partially replace a cold treatment needed to break flower dormancy of azalea.</p>	250-500	<p>For three consecutive weeks apply a single foliar application. Begin applications only after plants have received 3 to 4 weeks of chilling. Plants should be at Stage 5 of floral development (i.e., style elongated and open) when treatment is initiated. A representative spray schedule would consist of applications made at 3, 10, and 17 days after four weeks of chilling. Flowers will not develop properly if applied prior to Stage 5.</p>
<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential for uniform flowering.</li> <li>• Do not apply after flower buds show color.</li> <li>• Cultivars such as 'Gloria', 'Prize', and 'Redwing', a single spray of 1,000 ppm after 4 weeks of chilling has proven effective in breaking dormancy</li> </ul>			
Azalea	<p><b>As a Complete Substitution of Cold Treatment to Break Flower Dormancy</b> Applications of ProGibb T&amp;O have been shown to completely substitute for a cold treatment that is needed to break flower dormancy of azalea.</p>	1,000	<p>For four to six consecutive weeks apply a single foliar application of 1,000 ppm. Plants must be at Stage 5 of floral development (i.e., style elongated and open) before first spray is applied. Flowers will not develop properly if applied prior to Stage 5 of floral development.</p>
<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• Thorough spray coverage is essential for uniform flowering.</li> <li>• Do not apply after flower buds show color.</li> </ul>			

<b>AZALEA (con't)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Azalea	<b>To Inhibit Flower Bud Initiation During Vegetative Growth</b> Applications of ProGibb T&O have been shown to inhibit flower bud initiation during vegetative growth of azalea.	100-750	Apply a single foliar application of ProGibb T&O at 100 to 750 ppm beginning 2 to 3 weeks after each pinch. Continue applications on a weekly basis for 1 to 2 weeks after the first application.
Note: <ul style="list-style-type: none"> <li>• Apply a maximum of three applications</li> </ul>			
<b>CALLA LILY</b>			
Calla Lily	<b>For increased flowering</b> Applications of ProGibb T&O have been shown to increase the number of flowers per rhizome or tuber in Calla Lilies.	500	Soak rhizome or tuber in ProGibb T&O at 500 ppm for 10 minutes prior to planting.
Note: <ul style="list-style-type: none"> <li>• Some flower leaf or flower stretching may occur on some cultivars. Rates should be reduced when this is noted. Changing soak time or concentration may vary response to ProGibb T&amp;O.</li> </ul>			
<b>CAMELLIA</b>			
Camellia	<b>For Substitution of Chilling Requirements and to Increase Bloom Size</b> Applications of ProGibb T&O have been shown to substitute for the chilling requirements and increase bloom size of camellia.	2.0% solution	Dilute ProGibb T&O in half by mixing equal volumes of product and water. Remove the vegetative bud immediately adjacent to or below the floral bud. Place a single drop of the prepared solution to the vegetative bud scar.
Note: <ul style="list-style-type: none"> <li>• The addition of a deposition aid (such as carboxymethylcellulose) to thicken the solution will decrease run-off.</li> </ul>			





<b>GERANIUM</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
<b>CUTTINGS</b>			
Geranium	<b>For increase in flower number and flower size.</b> Applications of ProGibb T&O have been shown to increase flower number and flower size of geranium cuttings.	1-5	Apply a single foliar application of 1 to 5 ppm when inflorescence first begins to show color. Direct spray at the developing inflorescence.
Note: <ul style="list-style-type: none"> <li>• Treatments prior to inflorescence showing color or concentrations higher than 5 ppm may cause peduncle stretching.</li> </ul>			
<b>SEEDLINGS</b>			
Geranium	<b>For flowering advancement</b> Applications of ProGibb T&O have been shown to advance flowering 10 to 21 days depending upon variety of geranium.	5-15	Apply a single foliar application of 5 to 15 ppm when first flower bud set is noted. Spray the entire plant to the point of run-off.
Note: <ul style="list-style-type: none"> <li>• Incorrect timing or concentrations above 15 ppm may cause plant stretching.</li> </ul>			
<b>TREE FORMS</b>			
Geranium	<b>For Tree Forms:</b> The following recommendations are for the production of tree forms of common geranium cultivars by stem elongation.	250	For four consecutive weeks apply a single foliar application of 250 ppm. Spray the entire plant to the point of run-off.
Note: <ul style="list-style-type: none"> <li>• Treated plants may require staking after application.</li> </ul>			

<b>HYDRANGEA</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Hydrangea	<b>For chilling substitution to break flower bud dormancy</b> Applications of ProGibb T&O have been shown to substitute for chilling requirements to break flower bud dormancy of hydrangea.	2-5	For one to four consecutive weeks apply a single foliar application of 2 to 5 ppm. Begin applications at the start of forcing. For best results, thoroughly cover all growing points containing flower buds.
Note: <ul style="list-style-type: none"> <li>• Over-applications or concentrations higher than 5 ppm may result in stretched, spindly, and weaken stems.</li> </ul>			
<b>POMPOM CHRYSANTHEMUM</b>			
Pompom Chrysanthemum	<b>For Elongated Peduncles</b> Applications of ProGibb T&O have been shown to elongate peduncles of Pompom chrysanthemum.	25-60	Apply a single foliar application of 25 to 60 ppm 4 to 5 weeks after initiation of short days. Apply directing the spray solution towards the flower buds.
Note: <ul style="list-style-type: none"> <li>• Over-application or incorrect timing may cause stretched, spindly, and weaken stems.</li> </ul>			
<b>SPATHIPHYLLUM AND OTHER ARACEAE</b>			
Spathiphyllum	<b>To accelerate bloom and increase the number of flowers per plant</b> Applications of ProGibb T&O have been shown to increase flowering of <u>Spathiphyllum</u> .	150-250	Apply a single foliar application of 150 to 250 ppm approximately 9 to 12 weeks prior to expected date of sale. Spray to the point of run-off and thoroughly wet all growing points.
Note: <ul style="list-style-type: none"> <li>◆ Some flower distortion or leaf stretching may occur on cultivars such as 'Petite', 'Starlight', 'Tasson', and 'Mauna Loa'. Rates should be reduced when this is noted. On other cultivars, users should first evaluate ProGibb T&amp;O on a small number of plants <u>prior to</u> application of the product on a commercial basis.</li> </ul>			

SPATHIPHYLLUM AND OTHER ARACEAE (con't)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (ppm a.i.)	APPLICATION TIMING/ RECOMMENDATIONS
AGLAONEMA	<b>To accelerate bloom and increase the number of flowers per plant.</b> Applications of ProGibb T&O have been shown to increase flowering of Araceae	250-500	For one to four consecutive weeks apply a single foliar application of 250 to 500 ppm. Begin applications at the start of forcing. For best results, thoroughly cover all growing points containing flower buds.
ANTHURIUM		250-500	
DIFFENBACHIA (Dumb Cane)		250-500	
SYNGONIUM	<b>To accelerate bloom and increase the number of flowers per plant.</b> Applications of ProGibb T&O have been shown to increase flowering of Araceae	500-2,000	For one to four consecutive weeks apply a single foliar application of 500 to 2,000 ppm. Begin applications at the start of forcing. For best results, thoroughly cover all growing points containing flower buds.
<p>Note:</p> <ul style="list-style-type: none"> <li>◆ Application of ProGibb T&amp;O has been shown to reduce the days to flowering and increase the number of flowers per plant. Apply 1 or 2 applications during the vegetative phase of plant development to induce bloom. On other cultivars, users should first evaluate ProGibb T&amp;O on a small number of plants <b>prior to</b> application of the product on a commercial basis..</li> </ul>			

## APPLICATIONS TO CUT FLOWERS

ProGibb T&O may be applied to ornamental plants grown for cut flowers to promote stem elongation and flowering. Applying ProGibb T&O can dramatically promote flowering in many dicot and some monocot plants.

**NOTE:** ProGibb T&O is very active and application at an excessive rate can result in undesirable effects. Users should first **evaluate** ProGibb T&O on a small number of plants **prior** to application of the product on a widespread basis.

### CUT FLOWERS

<b>ASTER</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Aster: <i>Callistephus chinensis</i> Monte Carlo-type Novi-type Belgi-type	To promote stem elongation, and break dormancy. Applications of ProGibb T&O have been shown to increase stem elongation and reduce time to flowering.	50-100	Make 1-3 applications of 50-100 ppm during the early vegetative period. Apply when plants are 2"- 6" in height. Keep applications 2-3 weeks apart.
<b>BABY'S BREATH (Gipsophila)</b>			
Gipsophila	To accelerate plant growth, increase number of flowering stems, increase flower number and increase uniformity. Applications of ProGibb T&O have been shown to promote uniform and increased flowering of Gipsophylla.	150-500	Apply 3-4 applications of 150-500 ppm at 4 weeks of growth (after pinching). Keep applications 2 weeks apart.
<b>BELLS OF IRELAND (Moluccella)</b>			
Moluccella	To accelerate plant growth and stem elongation Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Bells of Ireland.	50-100	Apply when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.

CUT FLOWERS (con't)

<b>BUPLUREUM</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm)</b>	<b>APPLICATION TIMING/RECOMMENDATIONS</b>
Bupleureum	<b>To promote plant growth and stem elongation</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of <i>Bupleureum sp.</i>	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
<b>CAMPANULA</b>			
<i>Campanula medium</i>	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of <i>Campanula</i>	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
<b>CANDY TUFT (Iberis)</b>			
<i>Iberis oderata</i>	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of <i>Candy Tuft.</i>	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.

## CUT FLOWERS (con't)

COLUMN STOCK (Matthiola)			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (ppm a.i.)	APPLICATION TIMING/ RECOMMENDATIONS
Stock	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of <i>Matthiola incana</i>	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
DELPHINIUM			
Delphinium species: including <i>D. elatum</i> , <i>D. grandiflorum</i> , <i>D. belladonna</i> , <i>D. bellamosum</i> , <i>D. cardinale</i> , <i>D. nudicale</i> , and Delphinium hybrids.	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Delphinium	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
DIDISCUS (Trachyme)			
Trachyme	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Didiscus	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.

## CUT FLOWERS (con't)

HYDRANGEA			
CROP/VARIETY	OBJECTIVE/BENEFIT	RATE (ppm a.i.)	APPLICATION TIMING/ RECOMMENDATIONS
Hydrangea	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Hydrangea	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
LARKSPUR			
Larkspur <i>Consolida ambigua</i> , <i>C. orientalis</i> , <i>Delphinium ajacis</i>	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Larkspur	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
LISIANTHUS (Eustoma)			
Lisianthus	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of <i>Eustoma grandiflora</i> .	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.



CUT FLOWERS (con't)

<b>PHLOX</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm a.i.)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Phlox  <i>Phlox paniculata and Drummondii hybrida</i>	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Phlox	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
<b>QUEEN ANNE'S LACE (Ammi)</b>			
Queen Anne's Lace	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Queen Anne's Lace	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
<b>SAFFLOWER (Carthamus)</b>			
Safflower	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of <i>Safflower</i>	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.

CUT FLOWERS (con't)

<b>SOLIDASTER (Solidago)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm)</b>	<b>APPLICATION TIMING/RECOMMENDATIONS</b>
Solidaster	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Solidago.	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
<b>STATICE (Limonium)</b>			
Statice	<b>For earlier flowering and increased flower yield.</b> Applications of ProGibb T&O have been shown to decrease the time to flower, increase stem elongation, and increase flower yield of Statice.	400-500	Apply as a foliar spray 10 ml (0.33 fl. oz.) of a 400 to 500 ppm solution to each plant when plants are 10 inches or more in diameter (approximately 90 to 110 days after sowing).
<p>Note:</p> <ul style="list-style-type: none"> <li>◆ Do not exceed specified rates.</li> <li>◆ Do not make more than one application.</li> <li>◆ Accelerated flowering is also influenced by photoperiod, nutrition, and temperature.</li> </ul>			
Statice	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Statice	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.

CUT FLOWERS (con't)

<b>SUNFLOWER (Helianthus)</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (ppm)</b>	<b>APPLICATION TIMING/RECOMMENDATIONS</b>
Sunflower	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Sunflower	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.
<b>SWEET WILLIAM (Dianthus)</b>			
Sweet William	<b>To promote plant growth and stem elongation.</b> Applications of ProGibb T&O have been shown to promote plant growth and stem elongation of Sweet William	50-100	Apply as a foliar spray when plants are 4"- 8" in height. Keep applications 2-3 weeks apart.

## APPLICATIONS TO TURFGRASS

Foliar applications of ProGibb T&O have been shown to initiate or maintain growth and/or prevent color change during periods of cold stress on Bermudagrass grown in golf courses, parks and turf farms.

<b>TURF (GOLF COURSES, PARKS AND TURF FARMS)</b>			
<b>Cool Weather Application</b>			
<b>CROP/VARIETY</b>	<b>OBJECTIVE/BENEFIT</b>	<b>RATE (grams of a.i./acre)</b>	<b>APPLICATION TIMING/ RECOMMENDATIONS</b>
Bermudagrass (Tifdwarf, Tifgreen, and other cultivars)	<b>To initiate or maintain growth and prevent color change during periods of cold stress and light frosts.</b>	10-25	Apply 10 grams a.i./acre weekly or 25 grams a.i./acre biweekly in 25-to-100 gallons of water/acre.
<b>NOTE:</b>			
<ul style="list-style-type: none"> <li>• Maintain adequate moisture and proper fertilization programs recommended in local area.</li> <li>• Keep applications of the high rate at least two weeks apart.</li> <li>• Do not use on dormant turf</li> <li>• Discontinue treatments if thinning is observed. More frequent mowing may be necessary.</li> </ul>			
<b>Warm Weather Application</b>			
Bermudagrass  Tifdwarf, Tifgreen	<b>To maintain or enhance regrowth of golf course Bermudagrass during summer months.</b>	1-3	Apply 1-to-3 grams a.i./acre weekly in 25-to-100 gallons of water/acre.
<b>NOTE:</b>			
<ul style="list-style-type: none"> <li>• Maintain adequate moisture and proper fertilization programs recommended in local area.</li> <li>• Keep applications of the high rate at least two weeks apart.</li> <li>• Do not use on dormant turf</li> <li>• Discontinue treatments if thinning is observed. More frequent mowing may be necessary.</li> </ul>			

**BEDDING PLANTS, ANNUAL AND PERENNIAL POTTED CROPS (for example: Tree Form Azalea, Flowering Chrysanthemum, Poinsettia) FIELD-GROWN ORNAMENTALS AND BULB CROPS**

**Application Instructions for Promotion of Plant Growth**

ProGibb T&O may be applied to bedding plants, annual and perennial potted crops, and bulb crops to promote plant growth. Applying ProGibb T&O can dramatically promote plant growth of most dicot and some monocot plants. Additionally, a foliar ProGibb T&O application can be utilized to overcome over-applications of a gibberellin-inhibiting plant growth regulator.

- ◆ When applying ProGibb T&O to promote plant growth, start with 1 ppm unless previous experience warrants higher use rates.
- ◆ Following assessment of plant response, and if desired results are not evident, reapplication or an increase in rate may be warranted.

**NOTE:** ProGibb T&O is very active and application at an excessive rate can result in undesirable stem elongation. Users should first evaluate ProGibb T&O on a small number of plants before application of the product on a widespread basis.

Rate (ppm) (parts per million)	Timing	Method
1 to 25	<i>Apply a single application directly to plant foliage</i>	Foliar application

**NOTICE TO USER**

**Seller makes no warranty, express or implied, or 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.**

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