

40% Soluble Powder Plant Growth Regulator

ACTIVE INGREDIENT:

Gibberellic Acid A3	40.0% w/w
OTHER INGREDIENTS:	60.0% w/w
TOTAL: 1	00.0% w/w

KEEP OUT OF THE REACH OF CHILDREN

IMPORTANT: Read the entire label before using this product.

Net Contents: 320 grams (0.705 lb)

Contains 128 grams of Gibberellic acid for every 320 grams (11.29 ounces) of product

EPA Reg. No. 75499-19 EPA Est. No. 93116-IL-1 Batch Number:

Manufactured by:

Plant Synergists, Inc. 4730 Kingussie Drive Houston, TX 77084

	FIRST AID			
IF ON SKIN OR CLOTH- ING	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center 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 center or doctor for treatment advice. 			
IF INHALED	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a poison control center or doctor for further treatment advice.			
HOTLINE NUMBER				
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at (800) 858-7378 for general or medical infor-				

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if inhaled. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE). Do not allow children, pets or livestock to have access to treated seeds.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- · Long sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

mation.

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:

- Remove clothing/PPE immediately if pesticide gets inside, then wash thoroughly, and put on clean clothing.
- 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

For terrestrial uses: 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 or rinsate. Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting (such as in row ends). Dispose of all excess treated seed by burying seed away from bodies of water.

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 applications. For any requirements specific to your State or Tribe, consult the State or Tribal 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 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 4 hours.

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 over short-sleeved shirt and short pants, waterproof gloves and shoes plus socks.

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. Keep unprotected persons out of treated areas until sprays have dried.

GENERAL INFORMATION

Use only as directed. The label should be read thoroughly and understood before making applications. Keep out of reach of children. Store treated seed away from food and feedstuffs.

Application instructions:

VitaGib[™] 40% contains gibberellic acid, which is an extremely potent plant growth regulator. When applying plant growth regulators, follow the label directions for rates, timings, and water volumes.

- · Do not apply to plants under pest, nutritional, or water stress.
- Effectiveness requires that all parts of plant or crop receive thorough spray coverage or desired result 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, use water with a neutral pH between 4.0 and 8.5. Use a buffer with pH above or below this range.
- VitaGib[™] 40% 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. Nighttime applications are encouraged when day-time conditions are not conducive to slow drying conditions.
- Product persistence: VitaGib[™] 40% should be re-applied if significant rain occurs within 2 hours of application.
- Compatibility: The VitaGib[™] 40% spray guidelines refer to the use of the product alone, except as specified. Use a standard jar compatibility test before mixing with other chemicals.
- For aerial applications use spray volumes of 2 gallons per acre or greater (10 gallons per acre for tree crops)
- · No pre-harvest interval is required for this product.

CHEMIGATION PRECAUTIONS

Apply this product only through the following systems: Overhead sprinklers such as impact, microsprinklers, or booms. Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness can result from non-uniform distribution of treated water. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system (including system down and make necessary adjustments should the need arise. Prior to application ensure that the chemigation system meets the following requirements:

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

In addition to the above use rates and directions, the following precautions must be observed when using this product in any type of irrigation system.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year. Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water systems should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, guick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

SPRAY INSTRUCTIONS FOR CROP CATEGORIES

SPRAY GUIDELINES FOR GRAPE

For all grapes, application by ground sprayer is recommended. Apply as a concentrate or dilute spray in sufficient water volume to ensure complete coverage of all flower clusters or berries. For cultivar specific spray rates and timings, see accompanying tables.

CLUSTER STRETCH SPRAYS			
TREATMENT OBJECTIVE	TIMING OF APPLICATION		
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 which aids in sugar development.	Make 1-3 applications before bloom when flower clusters are 2-7 inches long.		

SEEDLESS TABLE GRAPES

CLUSTER STRETCH SPRAYS, continued						
Grams Grams Ounces CULTIVAR A.I. /acre Product/Acre Product/Acre						
Perlette seedless	8 - 24	20 - 60	0.7 – 2.2			
Flame seedless	8 - 24	20 - 60	0.7 – 2.2			
Thompson Seedless	8 - 24	20 - 60	0.7 – 2.2			
Raisin	8 - 24	20 - 60	0.7 – 2.2			

BERRY THINNING SPRAYS				
TREATMENT OBJECTIVE TIMING OF APPLICATION				
For decreased berry set, hand-thinning cost and maturity in seedless gra	hastened	Make 1 - 4 applications during bloom Make only 1 - 2 applications for "Othe seedless grapes," When the bloom per is extended, subsequent sprays are to made 1 - 7 days after first application.		
CULTIVAR	Grams a.i. /acre	Grams Product/Acre	Ounces Product/Acre	
Flame seedless	3 - 16	7.5 - 40	0.3 - 1.4	
Thompson Seedless	8 - 20	20 - 50 0.7 - 1.8		
Raisin	3 - 12	7.5 - 30 0.3 - 1.1		
Other Seedless Grapes	0.5 - 12	1.3 - 30 0.1 - 1.1		
NOTE: At the high and of the processihed range of rates and pumber of				

NOTE: At the high end of the prescribed range of rates and number of applications, expect considerably more thinning in young vines or vines with high vigor. For "Other Seedless Grapes" use caution as some new cultivars are very responsive and over-thin easily. Consult local specialists before thinning unfamiliar cultivars.

BUMP SPRAY					
TREATMENT OBJECTIVE TIMING OF APPLICATION					
To initiate the beginni growth in listed cultiva		Make one application between the thinning spray and the first sizing sp			
CULTIVAR	Grams A.I./Acre	Grams Product/Acre Ounces			
Thompson Seedless	16 - 24	40 - 60 1.4 - 2.2			

BERRY SIZING SPRAYS				
TREATMENT C	OBJECTIVE TIMING OF APPLICATION			ATION
For larger berries and larger clusters when used in conjunction with established girdling and thinning practices.		Make 1-4 applications beginning w the average berry size reaches "targ 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 da from the first sizing spray are less effective.		hes "target" ng of the dictated ard and stween 15 - 20 days
CROP/CULTIVAR	TARGET BERRY DIAMETER*	Grams Product/ Pro		Ounces Product/ Acre
Perlette Seedless	4 - 5 mm	32	80	2.9
Flame Seedless	6 - 9 mm	20	50	1.8
Thompson Seedless	3 - 5 mm	32 80 2		2.8
Raisin	3 - 5 mm	4	10	0.4
Other Seedless Grapes	3 - 14 mm	8	20	0.7
*Target average herry diameter for the first application				

*Target average berry diameter for the first application.

NOTE: In some growing regions and for some cultivars, the higher amounts of gibberellic acid indicated will reduce fruitfulness (cluster counts) the following year. At the high end of the prescribed range of rates and number of applications, a delay in berry skin color development, sugar accumulation and overall maturation has been observed. Consult your local specialist before sizing cultivars with which there is no familiarity.

SEEDLESS BERRY SIZING CLUSTER DIP					
TREATMENT OBJECTIVE TIMING OF APPLICATION					
To increase berry size.	Apply 20 - 50 ppm GA3 solution as a dip or direct spray to the cluster when berries reach 12 - 15 mm.				
	Rate Per 5 Gallons Treatment Solution				
CROP/CULTIVAR	Grams PPM A.I. Product Ounces Product				
Seedless Grapes	1 - 2.5 20 - 50 0.1 - 0.25				
NOTE: To prepare dip solution, add 1 - 2.5 gram VitaGib [™] 40% for every 5 gallons of solution needed. Consult your local specialist before sizing cultivars with which there is no familiarity.					

BERRY SIZING SPRAYS-SEEDED TABLE GRAPES			
TREATMENT OBJECTIVE	TIMING OF APPLICATION		
To increase berry size in listed cultivars; and also to reduce be shrivel in Emperor.	≘rry	Make one application during the indicated berry diameter range to the entire vine.	
		_	

	TARGET	Rate		
CROP/ CULTIVAR	BERRY DIAMETER*	Grams a.i. /acre	Grams Product/Acre	Ounces Product/Acre
Emperor	12 - 16			
Red Globe	12 - 18	1		
Calmeria	12 - 16]		
Christmas Rose	12 - 16	20	50	1.8
Rogue	12 - 16			
Queens	12 - 15			

*Predominant average berry diameter for this application.

NOTE: Whole vine applications have been known to reduce fruitfulness (cluster counts) the following year. Consult your local specialist before sizing cultivars with which there is no familiarity.

TREATMEI	NT OBJECTIVE	тімі	NG OF APPLIC	ATION
To increase berry size in listed cultivars; and also to reduce berry shrivel in Emperor.		Make one 20 - 50 ppm application duri the indicted berry diameter range. Mal the application as a direct spray or dip the cluster.		range. Make
	BERRY	Rate Per 5 G	Gallons Treatn	nent Solution
CROP/ CULTIVAR	DIAMETER (mm)*	PPM A.I.	Grams Product	Ounces Product
Emperor	12 - 16	20 - 50	1 - 2.5	0.1 - 0.25
Red Globe	12 - 18			
Calmeria	12 - 16			
Christmas Rose	12 - 16			
Rogue	12 - 16	1		
Queens	12 - 15			
Other Seeded Grapes	2 - 3 weeks after bloom or when shatter is completed			
*Predominant average berry diameter for this application.				

of dip solution needed. Consult your local specialist before sizing cultivars with which there is no familiarity.

BERRY SIZING SPRAYS - BLACK CORINTH					
TREATMENT OBJECTIVE TIMING OF APPLICATION					
To increase berry size.	Make 1 application 3 - 5 days after full bloom, but before shatter begins.				
CROP/CULTIVAR	Grams Grams Ounces a.i. /acre Product/Acre Product/Acre				
Black Corinth (Zante Currant)	1-12 2.5-30 0.1-1.1				

WINE GRAPES			
TREATMENT OBJECTIVE TIMING OF APPLICATION			
To increase cluster length and improve air circulation and light penetration within the cluster. Under specific conditions this application has been known to help reduce the incidence of bunch rot and sour rot. Consult your local specialist before treating cultivars with which there is no familiarity.	Make a single spray. Apply when clusters found on 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.		
CROP/CULTIVAR	RATE Grams a.i./acre	RATE Product/acre	
Palomino, Sauvignon, Blanc Tinta, madera	0.4 - 1	0.04 - 0.1 oz Product 2.5 Grams Product	
Aleatico, Carinane, Chardonnay, Chenin Blanc, French Colombard, Pinot Noir, Valepenas	1 - 2	2.5 - 5 Grams Product 0.1 - 0.3 oz Product	
Barbera ,Petite Sirah, Zinfandel	2 - 4	5 - 10 grams Product 0.2 - 0.4 oz Product	
Green Hungarian	4 - 8	10 - 20 Grams product 0.4 - 0.7 oz product	
Grenache Alicante	8	20 grams product 0.7 oz product	
Salvadore	8 - 16	20 - 40 grams product 0.7 - 1.4 oz product	
NOTE: DO NOT make this application less than three weeks before anticipated bloom. This application will most likely cause some reduction in yield of seeded wine grape cultivars. This reduction in yield results 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.

SPRAY GUIDELINES FOR CITRUS

- For citrus, apply in sprays of sufficient water volume to ensure thorough fruit wetting. In most cases, this application will cause some drop of oldest (most mature) leaves; this drop of older leaves is inconsequential. However, application to trees of low vigor or under stress (pest, nutritional, or water, etc.) has been known to causes severe leaf and/or fruit drop.
- Dilute spray rates are expressed as the amount of product per 100 gallons of water.
- 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 VitaGib™ 40% application often results in significant leaf drop and fruit drop.

CITRUS - INCREASE FRUIT SET				
CROP/ VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION	
Navel, Valencia*, and Ambersweet* Orange *(Not for use in California)	To enhance fruit set and yield.	15 - 25 Grams A.I. 37.5 - 62.5 Grams product 1.4 - 2.3 Ounces product	Make a single dilute spray between mid-December and late January using sufficient spray volume for adequate coverage of tree canopy	
flower very hea resources are w set fruit, suppo	NOTE: Many blocks of Ambersweet and Navel orange in Florida tend to flower very heavily, yet set poor crops. In these blocks, it appears that tree resources are wasted by heavy flowering, compromising the trees ability to set fruit, support early fruit growth, and carry fruit to harvest. Productivity of heavily blooming blocks is often increased by reducing flower formation.			
Clementine Mandarin (Limit of 1 - 3 full applications in California)	To increase fruit set and yield.	1 - 40 Grams A.I. 2.5 - 100 Grams product 0.1 - 3.6 Ounces product	Make 1 - 4 applications from early bloom up to 4 weeks after petal fall. Allow a minimum of 3 days between sprays. Use a dilute spray with sufficient spray volume for adequate coverage of tree canopy.	
Tangerines and Mandarin Hybrids (Not for use in California)	To increase fruit set and yield.	8 - 30 Grams A.I. 20 - 75 Grams product 0.7 - 2.7 Ounces product	Make 1 - 2 applications during the bloom period. Apply as a dilute spray.	

CITRUS: FIELD APPLICATIONS

CITRUS - INCREASE FRUIT SET, continued				
CROP/ VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION	
Grapefruit (Not for use in California)	To enhance fruit set, size and yield.	8 - 30 Grams A.I. 20 - 75 Grams product 0.7 - 2.7 Ounces product	Make a single application in December - January. Use a dilute spray with sufficient spray volume for adequate coverage of tree canopy. Typically 125 - 175 gallons of water per acre has been sufficient.	
NOTE: The rate and number of applications depends upon amount of desired fruit set. Generally, more fruit will be set by 2 applications (except grapefruit), earlier applications, higher rates, and climactic conditions more favorable to set. Differential responses to the PGR across citrus cultivars also interact with the above factors to affect the degree of fruit set achieved.				

Reductions in final fruit size are known to occur as a result of excessive fruit set. Increases in mature leaf drop occur in trees under stress.

CITRUS - REDUCE FRUIT DROP			
CROP/ VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION
Star Ruby Grapefruit (Not for use in California)	To reduce early-season small fruit drop of Star Ruby Variety thereby increasing yields.	25 - 35 Grams A.I. 62.5 - 87.5 Grams product 2.3 - 3.2 Ounces product	Make a single dilute application during the bloom period.
	NOTE: Results vary from season to season depending on environmental conditions. Maintain a well-balanced fertilization and watering program.		

	CITRUS - DELAY RIND AGING			
CROP/ VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION	
Navel and other orange cultivars (except Valencia)	To delay rind aging, reduce physiological disorders (e.g., rind staining, water spotting, sticky or tacky surface, oleocellosis), and produce a more orderly harvesting pattern.	16 - 48 Grams A.I. 40 - 1 20 Grams product 1.4 - 4.3 Ounces product	Make 1 - 2 applications as a concentrate or dilute spray. Early application: spray approximately 2 weeks prior to color break (typically AUG NOV). This timing causes the greatest delay in rind aging and produces the firmest rind possible. AND/OR Late application: 1 application after marketable color (typically OCT DEC). This late spray has been known to cause re-greening.	
Valencia Orange	To reduce rind creasing and to delay rind aging and softening.	40 - 80 Grams A.I. 100 - 300 Grams product 3.6 - 7.2 Ounces product	Make a single application as a concentrate or dilute spray in August to October to target crop of young fruit.	
coloring w • Do not ap following • Slower co re-greenir	 Do not apply the early spray to groves that will be harvested early, as fruit coloring will be delayed. Do not apply from January through July, as production is often reduced the following year. Slower color development is to be expected in the target crop. Increased re-greening of mature fruit has been known to occur. After marketable color is achieved, treatment effects are reduced the longer treated fruit remain 			
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 Grams A.I. 50 - 100 Grams product 1.8 - 3.6 Ounces product	Make 1 spray application 2 weeks prior to color break. Apply as a dilute spray.	

CITRUS - DELAY RIND AGING, continued				
CROP/ VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION	
as pre-harvest	NOTE: Do not apply if early harvest is planned. Do not apply after coloring as pre-harvest rind staining and re- greening has been known to occur. Application during coloring sometimes causes variation in rind color development			
Grapefruit (Not for use in California)	To delay disorders associated with rind aging (e.g., putfiness, softening, and orange coloration), prevent pre- harvest drop of mature fruit, increase peel strength, reduce water loss during storage, and produce a more orderly harvesting pattern.	16 - 48 Grams AJ. 40 - 120 Grams product 1.4 - 4.3 Ounces product	Make 1 or 2 dilute spray applications in sufficient volume to ensure coverage. Do not exceed 20 ppm A.I. (8 Grams A.I. 7100 gallons) in spray solution. EARLY: Make application two 2 weeks prior to color break. Apply as a dilute spray (AUG SEPT). AND/OR LATE: Make application after marketable color has developed (OCT-DEC).	
NOTE: Do not spray in groves that will be harvested early, as fruit coloring will be delayed. Treated fruit will re-green if allowed to remain on the tree for extended periods. Do not use concentrate sprays. Results vary from season to season depending on environmental conditions. The delay in rind aging is greatest when spray is applied before color change. For maximum effect on rind firmest and delay in rind aging, make applications before color change.				
Lemon/Lime	To decrease rind aging, yellowing, and the amount of small ripe fruit, and to produce a more desirable production pattern relative to market demand.	10 - 32 Grams A.I. 25 - 80 Grams product 0.9 - 2.9 Ounces product	Make a single application when target crop is 1/2 to full size, but still green.	
	applied 2 years in a ro naturity have been kn		r difference in harvest	

CITRUS - INCEASE JUICE YIELD			
CROP/VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION
Processing oranges (Not for use in California)	To increase juice extraction yield in late- harvested processing oranges.	20 Gram A.I. 50 Grams Product 1.8 Ounces Product	Make a single application at fruit color break in sufficient volume to ensure complete coverage of the fruit.

SPRAY GUIDELINES FOR TEMPERATE FRUIT CROPS

For temperate fruit crops, apply in sprays of sufficient water volumes to ensure thorough fruit wetting. Application to plants or trees of low vigor or under stress (pest, nutritional, or water, etc.) causes severe leaf and/or fruit drop. Applications of copper fungicides and/or oils within three weeks (before or after) the VitaGib^m 40% application often results in significant leaf drop and fruit drop.

	TEMPERATE FRUIT CROPS - FRUITSET			
CROP/VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION	
Highbush blueberry: Covile, Jersey, Stanley, Ealiblue, Weymounth, Walcott, berkley, Bluray, Bluecrop, 1316A, Concord, and others. (Not for use in California)	To improve fruit set.	40 - 80 Grams A.I. 100 - 200 Grams Product 3.6 - 7.2 Ounces Product	Make a single application of 80 Grams AL, per acre in 40 - 100 gallons of water. The application should be made at full bloom, when 75% of flowers are fully open. OR Make 2 applications of 40 Gram per acre in 40 - 100 gallons of water. Make the first application at full bloom, and the second application within 10 - 14 days of the first spray. For Weymouth, application can be delayed up to 2 weeks after bloom to increase size of shot berries.	

TEMPERATE FRUIT CROPS: FIELD APPLICATIONS

TEMPERATE FRUIT CROPS - FRUITSET, continued				
CROP/VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION	
Rabbiteye Blueberry: Aliceblue, Beckyblue, Bonita, Brightwell, Climax, Delite, Tiftblue, Woodward and others. (Not for use in California)	To improve fruit set.	40 - 80 Grams A.I. 100 - 200 Grams Product 3.6 - 7.2 Ounces Product	Make a single application of 40 - 80 Grams of A.I. in 40 - 100 gallons of water per acre when most flowers are elongated but not yet open (Bloom Stage 5). OR Make 2 - 4 applications 10 - 14 days apart starting at Bloom Stage 5. Spray 20 - 40 Grams A.I. in 40 - 100 gallons of water per acre per application.	
Melon (Not for Use in California) To stimulate fruit set during 1 - 4 Grams A.I. Make applications just prior to bloom. California) periods of cool temperatures. 2.5 - 10 Product 0.1 - 0.4 Ounces For cantaloupes and watermelons 2 should be made at intervals of 10 - 14 days.				
NOTE: For maxim reduced growth ra			d condition, except for	

TEMPERATE FRUIT CROPS - SPUR FORMATION			
CROP/ VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION
Sour Cherry (Not for use in California) Red Tart Cherry	To maintain and extend high fruiting capacity of sour cherry trees by promoting spur formation and reducing the occurrence of "blind" nodes. Spur formation is apparent the year after application. Therefore, changes in shoot, spur, and flower production will not be evident until 2 or 3 years after program initiation.	4 - 18 Grams A.I. 10 - 45 Grams Product 0.4 - 1.6 Ounces product	Apply 1 spray 14 - 28 days after bloom. Optimum timing is defined as that stage when 3 - 5 terminal leaves have fully expanded, or, at least 1 - 3 inches of terminal shoot extension has occurred. Use 4 - 18 Grams A.I. per acre, depending on tree age and vigor (See Table below). Apply as a dilute spray in sufficient water to ensure thorough wetting, or as a concentrate spray ensuring uniform coverage.

NOTE:

- Applications must be applied annually to ensure spur development and subsequent yield improvement year after year.
- Rates are based on expected normal tree vigor at various ages. Adjust
 rate according to tree vigor. If trees are vigorous, use lower 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 development. Best results will be obtained when combined with good cultural practices.

TREE AGE (YEARS)	GRAMS A.I./ACRE	GRAMS PRODUCT/ACRE	OUNCES PRODUCT/ACRE
6 - 10	4 - 6	10 - 15	0.4 - 0.5
11 - 15	8 - 10	20 - 25	0.7 - 0.9
16 - 20	10 - 14	25 - 35	0.9 - 1.3
20 + years	14 - 18	35 - 45	1.3 - 1.6

APPLICATION RATES FOR SOUR CHERRY TREES BY AGE

TEMPERATE FRUIT CROPS - FRUIT QUALITY			
CROP/VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION
Sweet Cherry (One application ONLY in the state of California)	To produce larger, brighter colored, firmer fruit.	16 - 48 Grams AI. 40 - 120 Grams product 1.4 - 4.3 Ounces product	Make 1 - 2 applications depending on crop development. If crop development is uniform, make 1 application when the fruit is translucent green to straw colored. (Second application - Not for use in California) If cultivars or conditions cause non-uniform crop development make 2 applications. When using 2 applications. When using 2 applications apply 1/3 to 1/2 of the total desired amount when the majority of the fruit is translucent green. Apply the remaining material 3 - 7 days later, when the majority of the fruit is straw colored. Use sufficient water volume to ensure thorough wetting.
	pment and harv ates with heavie		n slightly delayed.
Stone Fruit Group	To increase fruit firmness and improve fruit quality in the season of application.	16 - 32 Grams A.I. 40 - 80 Grams product 1.4 - 2. 9 Ounces product	Apply as a single spray 1 - 4 weeks prior to the beginning of the harvest period. Use sufficient water to achieve complete coverage of fruits and foliage.
NOTE: • This applicat	ion has been kn	own to cause re	eduction in flower counts

 This application has been known to cause reduction in flower counts the year following the application, particularly if it is made during the months of May through July.

TEMPERATE FRUIT CROPS - FRUIT QUALITY, continued			
CROP/VARIETY	OBJECTIVE	RATE/ACRE	TIMING OF APPLICATION
Italian Prune (Not for use in California)	To reduce internal browning, improve quality, and increase size.	16 - 48 Grams A. I. 40 - 100 Grams product 1.4 - 4.3 Ounces product	Make a single application 4 - 5 weeks before expected harvest. Apply in sufficient water volume to ensure thorough wetting.

Color development and harvest have occasionally been slightly delayed. Observation of reduced bloom the following season is occasionally seen.

TEMPERATE FRUIT CROPS				
CROP/VARIETY	OBJECTIVE/ BENEFIT	USE RATE/ ACRE	TIMING OF APPLICATION	
Pecan (Not for use in AZ, CA, & NM)	To extend leaf retention and maintain green foliage.	10 - 40 Grams A.I. 25 - 100 Grams product 0.9 - 3.6 Ounces product	Make 1- 4 applications of 10 g AL beginning in July and continuing through October as needed. Note: Use sufficient water to achieve complete coverage. In most cases 100 gallons per arce has been shown to be effective. • Do not make more than one application of VitaGib [™] 40% in July. • Using more than one application in July may result in reduced return bloom. VitaGib [™] 40% may be tank mixed with a suitable Insecticide or with fungicides.	

TEMPERATE FRUIT CROPS - NON BEARING USES					
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION		
Non To reduce 20 - 80 Grams Make a single application during Bearing flowering and flowering and Stone Fruit A.I. application during Stone Fruit fruiting in young 50 - 200 Grams the period of flower Use in in order to 1.8 - 7.2 bud initiation for the following year. California) minimize the competitive effect of early fruiting on tree development. Ouncesproduct Use sufficient water to achieve good coverage of the canopy.					
Non Bearing Blueberry (Not for use in California)	To reduce flowering and fruiting in young blueberry plants in order to minimize the competitive effect of early fruiting on plant development.	20 - 80 Grams A.I. 50-200 Grams product 1.8 -7. 2 Ounces product	Make 1 - 4 applications during the period of flower bud initiation for the following year. Use sufficient water to achieve good coverage of the canopy.		
for reduction if flower redu plants/trees t the year befo	NOTE: Do not spray plants/trees in their 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 plants/trees that are in good physiological condition. Discontinue treatment the year before desired harvest. Consult with your local horticulturist for timings and rates for specific cultivars in your area.				
Cranberry (Not for use in California	To reduce or eliminate the crop in the year of application.	10-50 Grams a.i. 25-125 Grams Product 0.9-4.5 Ounces Product	Apply a single application at early bloom (2-5% scatter bloom) Use sufficient water to ensure thorough coverage.		
have actually Responses w	increased fruit set, i ill vary depending o	the opposite resul n cultivar, age of t	e resulted in no effect or t intended. he bog and location. rs with which there is no		

CROP/VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION
Strawberry (Not for use in California)	To increase runner production of mother plants.	15 - 25 Grams A.I 37.5 - 62.5 Grams product 1.4 - 2.3 Ounces product	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.

and location. Consult your local horticulturist for specific directions.

TROPICAL FRUIT CROPS - FIELD USES				
CROP/VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION	
Avocado	To improve fruit set and yield.	25 Grams A.I. 65 Grams Product 2.2 Ounces Product	Apply at the cauliflower stage of flower development.	
Pineapple (Not for use in California)	To improve fruit size.	125 - 250 Grams A.I. 312.5 - 625 Grams product 11.3 - 22.5 Ounces product	Apply after flowering. Make 2 applications at 2 - 5 weeks intervals. Direct sprays to the fruit. Use sufficient water to achieve adequate coverage.	
Pineapple (Not for use in California)	To improve uniformity of fruit maturity and enhance harvest efficiency.	12 - 24 Grams A.I. 30 - 60 Grams Product 1.1 - 2.2 Ounces Product	Make the first application a few days after planting when plants are well established. Repeat applications a 3 - 4 week intervals.	

L I	TROPICAL FRUIT CROPS - FIELD USES, continued				
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION		
Coffee (Not for use in California)	To induce flower bud break.	10 - 50 Grams A.I. 25 - 125 Grams Product 0.9 - 4.5 Ounces Product	Apply in sufficient water volume to assure total coverage of developing buds along all laterals (arrange nozzles for from bottom up as well as top down of laterals and leaves. Multiple applications at 3 - 7 day frequency may be required over a period of 10 - 14 days. Use a non-ionic surfactant at 0.05% v/v to enhance performance.		
Sugarcane	To maintain yields in older plantings, increase bio-mass and stimulate growth.	1.0 - 2.0 Grams A.I. 2.5 - 5.0 Grams Product 0.1 - 0.2 Ounces Product	Apply at 1st to 5th internode stage of ratoon crop in at least 20 gal./Acre. Addition of a non- ionic surfactant may increase activity.		
Banana (Not for use in California)	ESTABLISHED PLANTINGS: To stimulate plant growth and to reduce the effects of stresses caused by insect, disease or	AERIAL FOLIAR SPRAY: 2.5 - 12 Grams A.I. per acre per spray. 6 - 30 g product 0.25 - 1.1 oz product	Make applications at 1-3 weeks frequency throughout the year. Use higher dose rates and shorter spray frequency prior to and during the periods of stress. Use sufficient water volume to achieve adequate canopy coverage. Tank mixing with the standard pesticide treatments applied by air is permissible.		
	adverse weather. These applications have been known help improve fruit size, quality and overall yields.	GROUND FOLIAR SPRAY: 2.5 - 12 Grams A.I. per acre per spray. 6 - 30 Grams product 0.25 - 1.1 oz product	Direct applications to developing daughter plants and pre-bloomed mother plants. Make applications every 1 - 3 weeks throughout the year as needed. Use higher dose rates and shorter spray frequency during periods of intense stress. Use sufficient water volume to achieve adequate canopy coverage Tank mixing with standard pesticides is permissible.		

	TROPICAL FRUIT CROPS - FIELD USES, continued				
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION		
Banana (Not for use in California)	NEW PLANTINGS: To stimulate early growth in new plantings, increase plant vigor and accelerate development to flowering.	FOLIAR BUNCH SPRAY: Add 1 - 2 Grams A.I. per gallon of water.	Make applications immediately after floral bunch emergence when hands and fingers are exposed through bunch bagging program. Use sufficient water volume to achieve adequate canopy coverage Tank mixing with standard pesticides is permissible. Add non- ionic surfactant at 0.05% v/v to enhance coverage and uptake.		
		PSEUDOSTEM INJECTIONS: Add 2.0 - 5.0 Grams a.i. per gallon of water.	Utilize a 5 ml volume per injection. Make 2 - 4 injections from the 14th true leaf to 5 weeks before shooting. Make the first injection beginning at the 14th - 15th true leaves measured from the 10th Filiform leaf development		
Plantain (Not for Use in California)	ESTABLISHED PLANTINGS: To stimulate plant growth and reduce the effects of stresses caused by insect, disease or adverse weather. These applications may help improve fruit size, quality and overall yields.	GROUND FOLIAR SPRAY: Apply 6 - 20 Grams per acre per spray.	Direct applications to developing daughter plants and pre-bloomed mother plants. Make applications every 1 - 3 weeks throughout the year as needed. Use higher dose rates and shorter intervals during times of intense stress. Use sufficient water volume to achieve adequate canopy coverage. Tank mixing with standard pesticides is permissible.		

SPRAY GUIDELINES FOR VEGETABLE CROPS

For vegetable crops, apply in sprays of sufficient water volumes to ensure thorough fruit wetting. Foliage of treated plants occasionally and temporarily appears lighter green in color due to accelerated growth rates following application. Application to plants of low vigor or under stress (pest, nutritional, or water, etc.) causes severe leaf yellowing, poor performance and/ or undesirable effects. Tank-mixing with surfactants, fertilizers, and/or other pesticides should not be done unless compatibility and phytotoxicity testing is done first using appropriate methods.

VEGETABLE CROPS				
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION	
Artichoke	To accelerate maturity and shift harvest to an earlier date.	10 - 20 Grams A.I. 25 - 50 Grams product 0.9 - 1.8 Ounces product	For perennials: apply 1 - 3 applications at bud initiation stage. For annuals: apply 1 - 4 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 has been shown to help reduce the incidence of infection by Alternaria dauci.	1 - 6 Grams A.I. 2.5 - 15 Grams product 0.1 - 0.5 Ounces product	Make the first application 4 - 6 weeks after emergence using commercial ground or aerial equipment with spray concentrations of 20 - 30 ppm. In severe disease situations or cool weather a second spray 14 days later is sometimes required to achieve the desired amount of foliar recovery. Do not apply more than twice per crop.	

(30 ppm) can increase the risk of excessive top growth, particularly with a second application.

s bolting has t stimulate	ACRE 2.5 - 10 Grams A.I. 6.3 - 25 Grams product Ounces product California. Do not ceen known to oo	TIMING OF APPLICATION Make a single application 1 - 4 weeks prior to harvest. Use 25 - 50 gallons of water per acre by ground application or 5 - 10 gallons of water per acre for aerial application (except in California). Use lower concentrations if applying 3 - 4 weeks before harvest and higher concentrations within 1 - 2 weeks before harvest. apply earlier than 4 weeks ccur. Make 1 application prior
s bolting has t stimulate	peen known to oo	ccur.
	1 . 4 Grams A I	Make 1 application prime
uit set during riods of cool mperatures.	2.5 - 10 Grams product 0.1 - 0.4 Ounces product	Make 1 application prior to bloom followed by 2 additional applications at intervals of 10 - 14 days. It is acceptable to use up to four applications. Use sufficient water volume for thorough coverage of exposed foliage.
obtain niform olting and crease seed oduction.	1 - 4 Grams A.I. 2.5 - 10 Grams product 0.1 - 0.4 Ounces product	Apply 1 - 4 applications at 2-week intervals, beginning at the fourth true leaf. Use sufficient water volume to ensure thorough wetting.
increase uit set and omote early ason fruit owth.	1 - 3 Grams A.I. 2.5 - 7.5 Grams product 0.1 - 0.27 Ounces product	Apply 1 - 2 sprays of 25 - 50 gallons per acre at weekly intervals during the flowering period
	nperatures. num benefits, growth due to obtain iform Iting and trease seed oduction. increase it set and omote early ason fruit owth. s best for areaa ow plant grow	mperatures. 0.1 - 0.4 Ounces product num benefits, vines must be in growth due to cool temperatures. obtain 1 - 4 Grams A.I. 1.5 - 10 Grams product obtain 0.1 - 0.4 iform 2.5 - 10 Grams product 0.1 - 0.4 oduction. 0.1 - 0.4 oductor. 0.1 - 0.4 oductor. 0.1 - 0.4 oductor. 0.1 - 0.4 son fruit 0.1 - 0.27 worth. Ounces

VEGETABLE CROPS, continued				
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION	
Pepper (Not for use in California)	To increase fruit size and yield.	1 - 3 Grams A.I. 2.5 - 7.5 Grams product 0.1 - 0.27 Ounces product	Apply in 25 - 50 gallons of water per acre at the beginning of the picking period.	
NOTE: The	high rate is best for plai	nts with heavy f	ruit loads.	
Potato Seed To stimulate uniform sprouting to aid in maximum production, development, harvested potatoes that have not had a full rest period. 0.2 - 0.4 grams product 0.2 - 0.4 oza product 0.02 - 0.04 oz product Dip whole or cut seed pices in a solution containing 0.2 - 0.4 grams a.i. in 100 gallons of water prior to planting.				
	er high soil temperatur ed. Do not treat rested		num concentration for	
Rhubarb To break dormancy on plants receiving insufficient chilling and to increase market-able yield of forced rhubarb. 10 - 20 Grams A.I. 1) When the rest period is not completely broken, make a single application of 2 fuid Ounces (60 ml) of a solution containing 20 Grams A.I. in 10 Ounces product 0.9 - 1.8 Ounces 20 Grams A.I. 20 Grams A.I. 0.9 - 1.8 Ounces 20 Grams A.I. 20 Grams A.I. 10 - 20 0.9 - 1.8 Ounces 20 Grams A.I. 20 Grams A.I. 10 - 20 0.9 - 1.8 Ounces 20 Grams A.I. 20 Grams A.I. 10 - 20 0.9 - 1.8 Ounces 20 Grams A.I. 10 - 20 11 - 20 0.9 - 1.8 Ounces 20 Grams A.I. 10 - 20 11 - 20 0.9 - 1.8 Ounces 20 Grams A.I. 10 - 20 11 - 20 0.9 - 1.8 Ounces 0.9 - 1.8 Ounces 20 Grams A.I. 10 - 20 10 - 20 10 Grams A.I. 10 gallons of water to each cleaned crown.				
application	o forcing house temper . If house is warmer tha res above 50° F lower yi	n 50° F, cover cr	owns with plastic.	

CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION	
Rhubarb	To break dormancy on plants receiving insufficient chilling and to increase market-able yield of forced rhubarb.	10 - 20 Grams A.I. 25 - 50 Grams product 0.9 - 1.8 Ounces product	 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. 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: Keep forcing house temperatures at 40 - 50° F for 24 hours after application. If house is warmer than 50° F, cover crowns with plastic. Temperatures above 50° F lower yields and cause poor stalk color.				
Spinach, Mustard greens, Collard greens, nd Turnip greens. (Not for use in California)To facilitate harvest, increase yield and improve fall and over winter crops.4 - 10 Grams Al. 10 - 25 product 0.4 - 0.9 O.4 - 0.9 F and during early morning product on crop. When applied to product on crop. When applied to promote growth of second cutting, wait until some re- growth has started before spraying. Maximum benefit is obtained when below normal temperatures prevail following application and growth would be otherwise slowed in untreated crops.				

SPRAY GUIDELINES FOR TEMPERATE FIELD CROPS

	RICE					
CROP/ VARIETY	USE RATE/ TIMING OF OBJECTIVE ACRE APPLICATION					
Seedling Applications (Early Season)						
Rice	To promote early season plant vigor and more uniform seedling growth prior to permanent flood establishment. To aid in rice water weevil control use VitaGib [™] 40% in a tank mixture combination with a neonicotinoid insecticide at directed label rates.	1 - 3 Grams A.I. 2.5 - 7.5 Grams product 0.1 - 0.3 Ounces product	Make 1 - 2 applications at the 1 - 2 and/or 4 - 5 leaf stages of growth.			
 NOTE: Early flooding reduces 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. Do not apply prior to the 2 - 3 leaf stage if gibberellin seed treatment is used. Timing and dosage are to be based upon environmental conditions, tank mix combinations with herbicides, and preferred permanent flood practice in relation to rice leaf stage. Do not apply when rice is subjected to drought stress conditions. 						
Panicle Extension Applications (Late Season)						
Rice (Not For Use in California)	To promote main culm and tiller panicle extension which has been seen to result in improved pollination and seed yield.	3 - 8 Grams A.I. 7.5 - 20 Grams product 0.3 - 0.7 Ounces product	Make a single application between split-boot and 100% panicle heading. Heading applications to the first crop also has been observed to accelerate regrowth of second crop rice.			

RICE, continued						
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION			
Rice (Hybrid Seed Production) (Not For Use in California)	To promote main culm and tiller panicle extension resulting in improved pollination and seed yield.	20 - 100 Grams A.I. 50 - 250 Grams product 1.8 - 9.0 Ounces product	Make 1 - 5 applications at regular intervals during the heading period to promote main culm and tiller panicle extension			
 NOTE: Timing and dosage are to be based upon environmental conditions, tank mix combinations with herbicides, and preferred permanent flood practice in relation to rice leaf stage. Do not apply when rice is subjected to drought stress conditions. Foliage occasionally and temporarily appears lighter green in color due to accelerated growth rates following VitaGib^m 40% application. 						
Rice (Not For Use in California)	Promote yield enhancement of ratoon crop rice by increasing ratoon tiller growth and aiding ratoon stand establishment.	4 - 7 Grams A.I. 10 - 17.5 Grams product 0.4 - 0.6 Ounces product	Apply single application at post flowering through soft dough stage.			

SEED TREATMENT APPLICATION

Use Restriction

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

An approved dye must be added to distinguish VitaGib[™] 40% 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.

Apply VitaGib[™] 40% to seed with standard mist treating equipment. For best results, ensure complete and uniform coverage.

Fill the treatment tank with half of the final tank mix volume. Add the required amount of VitaGib[™] 40% and mix thoroughly while adding water and other co-applied seed treatment products (see Compatibility with Other Chemicals section) to the desired final volume.

CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION
Wheat seed treatment (Not for Use in California)	To promote germination, emergence, and plant establishment particularly for seed with dormancy problems when planted under cool soil conditions.	1 - 3 Grams A.I. 2.5 - 7.5 Grams product 0.1 - 0.27 Ounces product	Use 8 - 20 fl oz. water/100 lb seed. Do not exceed 0.27 oz of product/100 lb seed
	stimulates seed germination establishment.	on and promote	s faster and more
Seed treatment for Rice (semi-dwarf and tall varieties)	To promote germination and emergence for semi- dwarf and tall varieties. To help increase final stand density and uniformity when seed are planted deeper to receive adequate moisture.	0.5 - 2 g A.I. 1.25 - 5.25 grams product (0.05 - 0.2 oz product) /100 lbs. seed	Mix the desired amount of product into 8 - 20 fl ounces of water per each 100 lbs. of seed.

- for the presoak.
- Do not exceed 0.2 oz of product/100 lbs. of seed.

TURF GRASS-SEED TREATMENT

CROP/	OBJECTIVE/	USE RATE	APPLICATION TIMING
VARIETY	BENEFIT	per/100LB SEED	
Grasses grown for seed production (For use on AZ, GA, ,MO or OR only.	To promote germination, emergence and stand uniformity.	0.5 - 2.1 grams A.I. 1.25 - 5.25 grams product 0.05 - 0.2 ounces product	For every 100 lbs turf grass seed to be treated, mix the desired amount of product into 8-20 fl ounces of water to form treatment solution.

NOTES:

- Do not apply product prior to a 24 hour presoak or to water used for the presoak
- Do not exceed 2.1 grams a.i./100 lbs of seed.

CROP/	ORIECTIVE	CROP/ USE RATE/ VARIETY OBJECTIVE ACRE TIMING OF APPLICATION						
Cotton	Promote early season growth and increase seedling vigor.	1 - 6 Grams A.I. 2.5 - 15 Grams product 0.1 - 0.5 Ounces products	Apply 1 - 2 applications as a foliar broadcast spray during the 3 - 7 leaf/node stage. If applying as a banded spray, reduce rates accordingly. Complete coverage of leaf tissue is essential. Use higher rates when temperatures will likely average 75° F or less during the 14 days following application(s).					
NOTES:								
the plan 40% unt • Applying	ts are under cont il the stress is alle	inuous stress, de viated and the p n necessary to a	: are under drought stress. If elay the application of VitaGib™ plants begin to recover. chieve the desired height,					

- the plants are beginning to recover.
- Applying more often than necessary to achieve the desired height results in excessive vegetative growth.
- Highly variable responses based on genetic background or variety are known to occur. Caution should be used when applying to varieties where there is no prior knowledge of the response.

TEMPERATE FIELD CROPS - FIELD USES, continued							
CROP/VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION				
Hops Seeded and seedless Fuggle hops and similar varieties adapted to the Northwestern states.	To increase fruit set and yield.	4 - 6 Grams A.I. 10 - 15 Grams product 0.4 - 0.5 Ounces product	Make a single application in 100 - 150 gallons of water per acre when vine growth is 5 - 8 feet in length.				

NOTE:

Do not apply VitaGib[™] 40% to plants that are under drought stress. Applications during stem elongation may increase lodging. Avoid drift or accidental application to other crops. VitaGib[™] 40% with other tank-mix partners is done solely at the user's risk.

· Always consider tank-mix partner

NOTE: Differences in response by variety may be large. Caution should be

NOTE: Differences in response by Variety may be large. Caution should be used when using on untested varieties. For specific variety information, consult your local specialist.

TEMPERATE FIELD CROPS - FIELD USES, continued						
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION			
Soybean	To enhance postemergence grass control.	1 - 20 Grams A.I. 2 - 50 Grams product 0.1 - 1.8 Ounces product. 2 - 4 Grams	V2-R5: Apply with a suitable herbicide for enhanced control of Johnsongrass and volunteer corn in soybeans.			
	To increase pod set and increase the growth of the plant.	2 - 4 Grams A.I. 6 - 11 Grams product 0.2 - 0.4 Ounces Product	Make a single application at V5-R3 growth stage.			
	To increase pod fill and seed size.	2 - 4 Grams A.I. 6 - 11 Grams product 0.2 - 0.4 Ounces Product	Make a single application 2 - 3 weeks before senescence. This should coincide with R5 growth stage.			
			large. Caution should be our local specialist.			
Peanuts	To promote plant growth.	2.5 - 5.0 Grams A.I 6 - 12 Grams product 0.2 - 0.4 Ounces product	Make 2 - 4 applications on a 2, week interval. Begin sprays 2 weeks after emergence.			
	To enhance postemergence grass control.	5 - 20 Grams A.I. 12 -50 Grams product 0.4 -1.8 Ounces product.	Apply with a suitable herbicide for enhanced control of Johnsongrass and volunteer corn in peanuts.			
used when u			large. Caution should be fc variety information,			

TEMPERATE FIELD CROPS - FIELD USES, continued						
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION			
On young wheat, barley and oat plants (Not for use in California)	Promote growth and stand establishment.	3 -6 grams a.i. 0.3 -0.6 oz product	As a foliar application during tillering but before stem elongation. Use higher end rates when temperature is expected to average 75°F or less during the 14 days following application.			
NOTE: Keep app	lication of the high	rate at least two	weeks apart.			
Wheat, Barley	To maximize yield potential during grain fill period.	3 -6 grams a.i. 0.3 -0.6 oz product	As a foliar application from anthesis to maturity (Feekes 10.5 - 11.4)			
Bermudagrass Tifdwarf Tifgreen	To maintain or enhance regrowth Burmudagrass during summer months.	1 to 3 grams a.i. 0.1 – 0.3 oz product	Under hot conditions, apply 1-3 grams a.i./ acre weekly in 25-100 gals, of water/acre			
Bermudagrass (Tifdwarf, Tifgreen and other cultivars)	To initiate or maintain growth and prevent color change during periods of cold stress and light frosts.	10 to 25 grams a.i. 0.9 to 2.3 oz product	Under cool conditions, apply 10g a.i/acre weekly or 25 g a.i/acre biweekly in 25-100 gals. of water/acre.			

Maintain adequate moisture and proper fertilizer programs as required for the local area.

Keep application of the high rate at least two weeks apart.

Do not use on dormant grass. Discontinue treatment if thinning occurs. More frequent mowing is occasionally necessary.

GENERAL PRE-PLANT USE: For Use in pre-plant burndown herbicide applications.

TEMPERATE FIELD CROPS - FIELD USES							
USE	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION				
Soil application	To promote early Palmer amaranth and/or waterhemp seed germination to better synchronize their sensitivity.	5 - 20 Grams A.I 12 - 50 Grams product 0.4 - 1.8 Ounces	Apply with a pre- emergence herbicide that has activity on Palmer amaranth and/or Waterhemp.				

SPRAY GUIDELINES FOR WATERCRESS:

Watercress							
CROP/ VARIETY	OBJECTIVE	USE RATE/ ACRE	TIMING OF APPLICATION				
Watercress	1) To enhance growth in adverse weather conditions; 2) To help plants resume growth after insect and disease attacks; 3) To increase root free stem length during low light/short day conditions.	15 -25 Grams A.I. 37.5 -62.5 Grams product 1.4-2.3 Ounces product	Make 1 - 2 applications per acre per crop 3-7 days before harvest. Use 50-100 gallons of water per acre.				

VitaGib[™] 40% CONVERSIONS

VitaGib[™] 40% contains 1.0 gram of A.I. per 2.5 Grams (0.09 oz) of product. To convert from Grams A.I. to Grams Product - Multiply Grams A.I. x 2.5 (i.e. 32 g A.I. x 2.5 = 80 g VitaGib[™] 40%)

To convert from Grams A.I. to Dry Ounces Product - Multiply Grams A.I. x 0.09 (i.e. 32 g A.I. x 0.09 = 2.9 oz VitaGib™ 40%)

Grams of Active Ingredient	Grams of VitaGib™ 40%	Ounces of VitaGib™ 40%
2	5	0.2
4	10	0.4
5	12.5	0.5
6	15	0.6
8	20	0.7
10	25	0.9
15	37.5	1.4
20	50	1.8
30	75	2.7
40	100	3.6
50	125	4.5
60	150	5.4
80	200	7.2
100	250	9.0
128	320	11.5

CONVERSION TABLE (for the 320 g size)

	Desired parts per million (ppm) of gibberellic acid									
Gallons of Water	4	5	6	8	10	15	20	30	40	50
75	2.8	3.6	4.3	5.6	7.2	10.8	14.4	21.6	28.8	36.0
100	3.7	4.6	5.7	7.4	9.22	13.8	18.4	27.6	36.8	46.0
125	4.6	5.8	7.1	9.2	11.6	17.4	23.2	34.8	46.4.	58.0
150	5.5	7.2	8.6	11.0	14.4	21.6	28.8	43.2	57.6	72.0
200	7.4	9.2	11.4	14.8	18.4	27.6	36.8	55.2	73.6	92.0
250	9.3	11.5	14.3	18.6	23.0	34.5	46.0	69.0	92.0	115.0
300	11.0	14.4	17.2	22.0	28.8	43.2	57.6	86.4	115.2	144.0
400	14.8	18.4	22.8	29.6	36.8	55.2	73.6	110.4	147.2	184.0
500	18.5	23.0	28.5	37.0	46.0	69.0	92.0	138.0	184.0	230.0
600	22.0	28.8	34.4	44.0	57.6	86.4	115.2	172.8	230.4	288.0
750	27.9	34.5	42.8	55.8	69.0	103.5	138.0	207.0	276.0	345.0

Grams of VitaGib™ 40% for given ppm's of Gibberellic Acid at Different Water Volumes.

NOTE: The numbers inside the table are the Grams of VitaGib[™] 40% needed to obtain the desired ppm's for each gallon.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE:

Keep containers tightly closed when not in use.

PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL:

Non-refillable container. Triple rinse as follows: For containers with capacity equal to or less than 5 gallons: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Add water – at least 2% of the container volume, and up to 1/3 of the volume of water needed to make the proper slurry composition with a maximum of ¼ of the container volume, and recap. Shake for 30 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. If used in application equipment, adjust the slurry volume application rate to account for any added rinsate water. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

LIMITED WARRANTY AND DISCLAIMER

It is the manufacturer's intention that this product is to be used in accordance with the Directions for Use as stated on this label. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. To the fullest extent permitted by law, the buyer's exclusive remedy and manufacturer's or seller's exclusive liability for any and all claims, losses, damages or injuries resulting from the use or handling of this product, whether or not based in contract, negligence, strict liability in tort or or therwise, shall be limited, at the manufacturer's option, to replacement of, or the repayment of the purchase price for, the quantity of product with respect to which damages are claimed.



40% Soluble Powder Plant Growth Regulator

ACTIVE INGREDIENT:

Gibberellic Acid A ₃	. 40.0% w/w
OTHER INGREDIENTS:	60.0% w/w
TOTAL:	100.0% w/w

KEEP OUT OF THE REACH OF CHILDREN

IMPORTANT: Read the entire label before using this product.

Net Contents: 320 grams (0.705 lb)

Contains 128 grams of Gibberellic acid for every 320 grams (11.29 ounces) of product

EPA Reg. No. 75499-19 EPA Est. No. 93116-IL-1 Batch Number:

Manufactured by:

Plant Synergists, Inc. 4730 Kingussie Drive Houston, TX 77084