

# U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Biopesticides and Pollution Prevention Division (7511C) 1200 Pennsylvania Avenue NW Washington, DC 20460

57538-22

EPA Reg. Number:

Date of Issuance:

Term of Issuance:

Unconditional

\_\_\_\_

Name of Pesticide Product: N-LARGE 40 SP

NOTICE OF PESTICIDE:

X Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Ms. Alice Walker, Ph.D. Stoller Enterprises, Inc. c/o Alice Walker Consulting 481 Country Club Dr. Senatobia, MS 38668

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions:

- 1. Before you release the product for shipment, revise the EPA Registration Number to read, "EPA Registration No. 57538-22".
- 2. Submit three (3) copies of the revised final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

A stamped copy of the label is enclosed for your records.

Jant L. aller

Signature of Approving Official:

Date:

6/16/05

EPA Form 8570-6

### ACCEPTED

JUN 1 6 2005

### **STOLLER N-LARGE 40 SP**

Plant Growth Regulator

• • • •
• • • •
40.0% w/w
60.0% w/w 100.0% w/w
100.0% w/w

Contains a total of 128 g of Gibberellic Acid in 320 g of product.

EPA Reg. No. 57538 -

EPA Est. No.

### KEEP OUT OF REACH OF CHILDREN

### **CAUTION**

FIRST AID		
If in eyes:	Hold eye open and rinse slowly and gently with water for 15-20 minutes.	
	Remove contact lenses, if present, after the first 5 minutes, then continue	
	rinsing eye.	
	Call a poison control center or doctor for treatment advice.	
If on skin or	Take off contaminated clothing.	
clothing:	Rinse skin immediately with plenty of water for 15-20 minutes.	
	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, preferably by mouth-to-mouth, if possible.	
	Call a poison control center or doctor for treatment advice.	
HOT LINE NUMBER		

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call 1-800-539-5283 for emergency medical treatment information.

### PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

CAUTION: Harmful if inhaled or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### **Personal Protective Equipment (PPE)**

Applicators, mixers, loaders, and other handlers must wear:

- Long-sleeved shirt and long pants.
- · Chemical-resistant gloves.
- Shoes plus socks.

Follow the 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 clothing 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 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 washwater or rinsate. Do not use treated seed for food, feed, or oil purposes. Exposed treated seed may be hazardous to birds and other wildlife. Treat only those seeds needed for immediate use and planting. Do not store excess treated seed beyond planting time. Dispose of all excess treated seed and seed packaging by burial 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 application. 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 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 4 hours unless wearing appropriate PPE.

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.
- Waterproof gloves.
- Shoes plus socks.

### STORAGE AND DISPOSAL

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

### Pesticide Storage

Keep container tightly closed when not in use.

### Pesticide Disposal

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

### **Container Disposal**

Plastic Containers: Do not reuse empty containers. 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.

Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### WARRANTY

To the fullest extent permitted by law, neither the manufacturers nor the seller make any warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use of this material when such use is contrary to label instructions. Read and follow the label directions carefully.

NET CONTENTS 160 g Manufactured For STOLLER ENTERPRISES, INC. 4001 W Sam Houston Pkwy N, Suite 100 Houston, Texas 77043 U. S. A. Toll Free 1-800-KEYLATE (539-5283) Phone (713) 461-1493 • Fax (713) 461-4467

Web: www.stollerusa.com • E-mail: stoller@stollerusa.com

# Plant Growth Regulator SPRAY GUIDE

## KEEP OUT OF REACH OF CHILDREN CAUTION

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Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag 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.

### **Application Instructions:**

- N-LARGE 40 SP soluble powder 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,
  can result in undesirable effects.
- Do not apply to plants under pest, nutritional, or water stress.
- When a range of rates is indicated, use the concentration and spray volume provided locally by the Stoller 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. Discard 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 neutral, or slightly acidic.
- N-LARGE 40 SP 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.
- Product persistence: N-LARGE 40 SP should be re-applied if significant rain occurs within 2 hours of application.
- Compatibility: Refer to the spray guidelines for ingredients known to be compatible with this product. If the tank mix combination has not been used previously, contact a Stoller representative or conduct a jar test to test for compatibility. Use a small jar and mix a small amount of spray, combining all ingredients in the same ratio as the anticipated use. If any

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indications of physical incompatibility develop, do not use this mixture for spraying. Indications of incompatibility usually will appear within 5 to 15 minutes after mixing. To ensure maximum crop safety and product performance, follow all precautions and limitations on this label and labels of products used in the tank mixture with N-LARGE 40 SP.

- 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 GRAPES**

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

SEEDLESS TABLE GRAPE			
CLUSTER STRETCH SPRAYS			
	APPLICATION TIMING/		
OBJECTIVE/BENEFIT	INSTRUCTIONS		
For cluster elongation and looser cluster	Make one to three applications before bloom when		
forms. To reduce costs of thinning, allow	flower clusters are 2 to 7 inches long.		
better air circulation to aid in the control of			
bunch rot, and increase light penetration to			
aid in sugar development.	<u> </u>		
CROP/CULTIVAR	RATE (grams a.i./acre)		
Perlette Seedless	8-24		
Flame Seedless	8-24		
Thompson Seedless	8-24		
Raisin	8-24		
Other Seedless Grapes	Not applicable.		
BERRY THINNING SPRAYS			
	APPLICATION TIMING/		
OBJECTIVE/BENEFIT	INSTRUCTIONS		
For decreased berry set, reduced hand	Make one to four applications during bloom. Only 1-		
thinning costs, and hastened maturity	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.		
CROP/CULTIVAR	RATE (grams a.i./acre)		
Perlette Seedless	Not applicable.		
Flame Seedless	3-16		
Thompson Seedless	8-20		
Raisin	3-12		
Other Seedless Grapes	0.5-12		

**NOTE:** Higher amounts or multiple applications can cause an excess of shot berries or over thinning, especially in young vines or vines with high vigor.

For "Other Seedless Grapes" use caution as some of the new cultivars are very responsive and can over-thin easily. A grower should consult the Stoller representative or local specialist before thinning cultivars with which he has no familiarity.

<u> </u>	<del></del>			
	BU	MP SPRAYS		
Thompson Seedless				
· · · · · · · · · · · · · · · · · · ·		APPLICATION TIMING/		
OBJECTIVE/BENEFIT		INSTRUCTIONS		
To help initiate the be	ginning of the berry	Make one application of 16-24 grams a.i./acre during		
growth period.		the period between the last thinning spray and the		
		first sizing spray.		
	BERRY	SIZING SPRAYS		
		APPLICATION TIMING/		
OBJECTIVE/BENEFIT		INSTRUCTIONS		
For large berries and l	arger clusters when	Make one to four applications beginning when the		
used in conjunction	with established	average berry size reaches "target" diameter (See		
girdling and thinning practices.		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.		
CROP/CULTIVAR	TARGET BERRY	RATE		
	DIAMETER*	(grams a.i./acre)		
Perlette Seedless	4-5 mm	32-128		
Flame Seedless	6-9 mm	20-120		
Thompson Seedless	3-5 mm	32-128		
Raisin	3-5 mm	4-20		
Other Seedless Grapes	3-14 mm	8-60		
* Target average berry d	iameter for the first as	oplication		

Target average berry diameter for the first application.

**NOTE:** In some growing regions and for some cultivars, high amounts of gibberellic acid can reduce fruitfulness (cluster counts) the following year.

High amounts of gibberellic acid can also delay berry skin color development, sugars accumulation and overall maturation.

A grower should consult a local specialist before sizing cultivars with which he has no familiarity.

	SEED	ED GRAPE	
	BERRY S	IZING SPRAYS	
		APPLICATION TIME	NG/
OBJECTIVE/BENEFIT		INSTRUCTIONS	
To increase berry size i	n listed cultivars; and	Make one application during the indicated ber	
also to reduce berry shri	also to reduce berry shrivel in Emperor.		olication can be made as a
		whole vine spray, or as	a spray or dip directly to the
		cluster.	
CROP/CULTIVAR	BERRY	Whole	Direct spray to the cluster
	DIAMETER	vine spray	only or dip the clusters.
	(mm)*	Rate in grams	Rate in ppm's of a.i.
		a.i./acre	
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 b	erry diameter for this a	ipplication.	

perry diameter for this application.

**NOTE:** The whole vine application can reduce fruitfulness (cluster counts) the following year. High amounts of gibberellic acid can also delay berry skin color development, sugars accumulation and overall maturation.

A grower should consult a local specialist before sizing cultivars with which he has no familiarity.

	APPLICATION TIMING/
OBJECTIVE/BENEFIT	INSTRUCTIONS
To increase berry size	Make one application 3-5 days after full bloom, but before shatter begins.
CROP	RATE (grams a.i./acre)
Black Corinth (Zante Currant)	1-12

### SPRAY GUIDELINES FOR 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.) can cause severe leaf and/or fruit drop. Do not apply in white wash sprays in which lime or other caustic material has produced high pH in the spray tank. Applications of copper fungicides and/or other oils within three weeks (before or after) the N-LARGE 40 SP application can result in significant leaf drop and fruit drop.

CITRUS: FIELD APPLICATIONS				
		RATE		
CROP/	OBJECTIVE/	(grams	APPLICATION TIMING/	
VARIETY	BENEFIT	a.i./acre)	INSTRUCTIONS	
Navel	To delay rind aging, reduce	16-48	Make one or two applications as	
Orange	physiological disorders (e.g.	1	a concentrate or dilute spray.	
	rind staining, water spotting,		1) Early application: spray	
	sticky or tacky surface, puffy		approximately 2 weeks prior to	
	rind and rapture under		color break (typically August-	
	pressure), and produce a		November). This timing causes	
	more orderly harvesting		the greatest delay in rind aging	
	pattern.		and produces the firmest rind	
	:		possible.	
	!		AND/OR	
			2) Late spray: make one	
	!		application after marketable	
	. !		color (typically October -	
	!		December). This late spray can	
			cause re-greening.	
Valencia	To reduce rind creasing and	40-80	Make a single application as a	
Orange	to delay rind aging and		concentrate or dilute spray in	
(For	softening.		August to October to target crop	
California			of young fruit.	
and Arizona	]			
use only)				
NOTE: Do not	NOTE: Do not apply the early spray to groves that can be harvested early, as fruit coloring will be			

**NOTE:** Do not apply the early spray to groves that can be harvested early, as fruit coloring will be delayed. Do not apply from January through July, as production can be reduced the following year.

Slower color development should be expected in the target crop. Increased re-greening of mature fruit can occur. After marketable color is achieved, treatment effects can be reduced the longer treated fruit remain on the tree.

Lemon/	To decrease the amount of	10-32	Make a single application when
Lime	small ripe fruit and produce a		target crop is 1/2 -3/4 full size,
	more desirable production		but still green.
	pattern relative to market		
	demand.		

**NOTE:** When applied two years in a row, an even larger difference in harvest pattern and maturity can occur.

	CITRUS: FIELD APPLICATIONS (CONT'D)				
CROP/ VARIETY	OBJECTIVE/ BENEFIT	RATE (grams a.i./acre)	APPLICATION TIMING/ INSTRUCTIONS		
Tangerine Hybrids (Orlando, Robinson, Minneola, Sunburst, and others)	To delay disorders associated with rind aging, puffiness, and softening, and to increase the strength of tangerine hybrids.	20-40	Make one spray application two weeks prior to color break. Apply as a dilute spray.		
	apply if early harvest is planned cur. Application during coloring		after coloring as pre-harvest rind rion in rind color development.		
Grapefruit (Not for use in California)	To delay disorders associated with rind aging (e.g puffiness, softening, and orange colorations), 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 (August - Sept). AND/OR LATE: Make application after marketable color has developed (Oct - Dec).		

NOTE: Do not spray groves that can be harvested early since fruit coloring will be delayed. Treated fruit can re-green if allowed to remain on the tree for extended periods. Application made after December, or when trees begin to break dormancy, can adversely affect new crop. Do not use concentrate sprays. Results can 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.

	CITRUS: FIELD AP	PLICATIONS (	CONT'D)
CROP/ VARIETY	OBJECTIVE/ - BENEFIT	RATE (grams a.i./acre)	APPLICATION TIMING/ INSTRUCTIONS
Star Ruby Grapefruit (Not for use	To reduce early-season small fruit drop of Star Ruby Variety thereby increasing	25-35	Make a single dilute application during the bloom period.
in California)	yields.		pruironmental conditions. Maintain

**NOTE:** Results can vary from season to season depending on environmental conditions. Maintain a well-balanced fertilization and watering program.

Clementine	To increase fruit set and	1-8	Make one to two applications
Mandarin	yield.		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:** 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 climatic conditions more favorable to set. Differences in the crop strain can 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.

### SPRAY GUIDELINES FOR FRUIT CROPS

	FRUI	T CROPS	
CROP/	OBJECTIVE/	RATE (grams	APPLICATION TIMING/
VARIETY	BENEFIT	a.i./acre)	INSTRUCTIONS
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: Color	development and harvest date ca	n be slightly del	ayed.
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 four weeks prior to the beginning of the harvest period. Use sufficient water to achieve complete coverage of fruits and foliage.

**NOTE:** This application can cause reduction in flower counts the year following the application, particularly if it is made during the months of May through July.

CONVERSION TABLE
N-LARGE 40 SP contains approximately 10 grams of active ingredient per 25 grams of product.

GRAMS OF ACTIVE INGREDIENT	GRAMS OF - N-LARGE 40 SP	GRAMS OF ACTIVE INGREDIENT	GRAMS OF N-LARGE 40 SP
2	. 5	30	<i>7</i> 5
4	10	40	100
5	12.5	50	125
6	15	60	150
8	20	80	200
10	25	100	250
15	37.5	128	320
20	50		

GRAMS OF N-LARGE 40 SP FOR GIVEN PPM'S OF GIBBERELLIC ACID AT DIFFERENT WATER VOLUMES											
Gallons	Parts per million (ppm) gibberellic acid										
of	4	5	6	8	10	15	20	30	40	60	90
Water											
<i>7</i> 5	3.0	3.8	4.5	6.0	7.5	11.3	15.0	22.5	30.0	45.0	60.0
100	4.0	5.0	6.0	8.0	10.0	15.0	20.0	30.0	40.0	60.0	80.0
125	5.0	6.3	7.5	10.0	12.5	18.8	25.0	37.5	50.0	<i>7</i> 5.0	100.0
150	6.0	7.5	9.0	12.0	15.0	22.5	30.0	45.0	60.0	90.0	120.0
200	8.0	10.0	12.0	16.0	20.0	30.0	40.0	60.0	80.0	120.0	160.0
250	10.0	12.5	15.0	20.0	25.0	37.5	50.0	75.0	100.0	150.0	200.0
300	12.0	15.0	18.0	24.0	30.0	45.0	60.0	90.0	120.0	180.0	240.0
400	16.0	20.0	24.0	32.0	40.0	60.0	80.0	120.0	160.0	240.0	320.0
500	20.0	25.0	30.0	40.0	50.0	75.0	100.0	150.0	200.0	300.0	400.0
600	24.0	30.0	36.0	48.0	60.0	90.0	120.0	180.0	240.0	360.0	480.0
750	30.0	37.5	45.0	60.0	75.0	112.5	150.0	225.0	300.0	450.0	600.0

**Note:** The numbers inside the table are the grams of N-LARGE 40 SP needed to obtain the desired ppm's for each gallonage.

**Example:** To make 250 gallons of a 40 ppm gibberellic acid solution, dissolve 100 grams of N-LARGE 40 SP in 250 gallons of water (see shaded area).