

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



F.S.A.

GIBBERELLIC ACID 100 SL

GROWTH REGULATOR

ACTIVE CONSTITUENT: 100 g/L GIBBERELLIC ACID

For foliar spray application to certain varieties of grapes, citrus and prunes to promote desirable harvest effects and as a stimulant for winter growth in pasture as specified in the Directions for Use.

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USE



DIRECTIONS FOR USE

RESTRAINTS

Use with a non-ionic wetter.

CROP	RATE	CRITICAL COMMENTS
CITRUS		Apply in a minimum volume of 5000 L/ha to ensure thorough coverage of fruit. DO NOT use where blemish is a problem.
Navel Oranges	10 mL	To delay rind aging for late marketing (or those which will be stored for more than 2 weeks prior to sale) and reduce rind blemish and for longer storage life, apply when oranges turn from green to silver (colourbreak). If fruit drop is a problem then apply a stop drop spray. This product is compatible with stop-drop sprays containing 2,4-D sodium salt. Use the 2,4-D at 10 ppm.
Mandarins	10 mL	To delay rind aging for late marketing and reducing rind blemish, apply at three-quarters to full colour.
Grapefruit		To delay rind aging, apply the spray when grapefruit turn from green to silver (colourbreak) for grapefruit to be harvested up to mid-November, or apply the spray mid-June for grapefruit to be harvested in December or January.
Lemons		To delay rind aging, apply 4 to 6 weeks ahead of maturity of fruit.
Currants - dried fruit	1 mL + 100 ppm chlomequat 780	To achieve berry thinning: Apply both chemicals at 100% capfall. Ensure thorough coverage of bunches.
	100 ppm chlomequat 780 followed by 1 mL F.S.A. Gibberellic Acid 100 SL Growth Regulator	To achieve berry thinning: Split application (a). Apply chlomequat 780 7 days after bunch droop. (b). Apply F.S.A. Gibberellic Acid 100 SL Growth Regulator at 80-100% capfall.
	200 ppm chlomequat 780 followed by 1 mL F.S.A. Gibberellic Acid 100 SL Growth Regulator	Use the 200 ppm rate of chlomequat 780 on vigorous vines. Use the 300 ppm rate of chlomequat 780 on excessively vigorous Carina vines only. Ensure thorough coverage of bunches.
	300 ppm followed by 1 mL F.S.A. Gibberellic Acid 100 SL Growth Regulator	
Sultanas - dried fruit	10 mL	To achieve berry thinning: Apply when bloom or blossom is at 100% capfall stage (full flowering).
Sultanas - fresh fruit	10 mL	Prune according to vigour of the vine – avoid exceeding 8 canes (except in special circumstances). Commence thinning late October. Thin bunches to leave one bunch per shoot (the largest). Do not exceed 30 bunches per vine. Bunch trimming should be carried out before fruit-set to reduce the incidence of tight bunches. For adequate coverage of table grapes apply product in a minimum volume of 2250 L/ha directed at the bunch area.

CROP	RATE	CRITICAL COMMENTS
Sultanas - fresh fruit <i>continued</i>	10 mL	To achieve bunch elongation (stretch): Apply when bunches are half to two-thirds of their final length (when bunches are between 10 - 15 cm in length). This application is usually applied 10 - 14 days before the first sight of bloom.
	10 mL plus 10 mL	To achieve thinning, two separate applications of 10 mL within the same season are required: Apply first application of 10 mL at 40% capfall. Apply second application of 10 mL at 80% capfall (usually 2 - 3 days later).
	30 mL plus 30 mL	To achieve increase in berry size, two separate applications of 30 mL within the same season are required: Apply first application of 30 mL when smallest berry size is 4mm and larger berries up to 6mm (berry shatter may be incomplete at this size). Apply second application of 30 mL at 5 to 7 days later. Trim bunches within two weeks of shatter to leave 3 to 4 shoulder sprigs. All spray timing stages should be judged on the top part of the bunch, as the bottom is removed at trimming.
Early Madeleine	20 mL	To achieve increase in berry size: Apply when berries reach 4 mm in diameter. Excessively vigorous vines should be cinctured 3 - 5 days before treatment with this product.
Perlette	12 mL	To achieve thinning: Apply at 70% capfall.
	20 mL	To achieve increase in berry size: Following the 12 mL application for thinning, apply the 20 mL application when berries reach 4 - 5 mm in diameter. Trim bunches as required.
Flame Seedless	10 mL	To achieve thinning: Apply at 70% capfall.
	30 mL	To achieve increase in berry size, two separate applications of 30 mL within the same season are required: Apply first application of 30 mL when berries have reached 7 - 9 mm in diameter. Apply second application of 30 mL when berries have reached 9 - 10 mm in diameter.
PRUNES	10 mL	Apply 3 - 4 weeks before normal harvest date (when fruit shows approximately 14% soluble solids) to delay harvest 14 - 17 days. This delayed maturity will result in increased sugar content and thus a higher dry-out ratio.

CROP	RATE	CRITICAL COMMENTS
Pasture - Grass Dominated	40 - 80 mL/ha	<p>To stimulate winter growth of grass dominant pasture for high intensity grazing. Apply in a minimum volume of 100 L/ha with a nonionic wetting agent such as F.S.A. Wetter 100 Surfactant at 10 mL/100 L.</p> <p>Stimulation is does dependant with higher rates giving greater stimulation.</p> <p>A single application may be made to temperate grass dominant pasture at any time from the beginning of June until early September.</p> <p>Multiple applications can be made at a minimum interval of 27 days with final application no later than early September. Ensure pasture is grazed before application.</p> <p>F.S.A. Gibberellic Acid 100 SL is foliar absorbed so ensure that the pasture has adequate leaf coverage prior to application.</p> <p>Growth stimulation is usually seen within 7 days of application and ceases around 3-4 weeks after application. Responsive grasses usually become yellow-green in colour as the rapid growth occurs. The pasture returns to a normal darker green after about 3 weeks.</p> <p>Pastures should be at least 1 year old prior to F.S.A. Gibberellic Acid 100 SL application.</p> <p>Ensure adequate soil moisture to support rapid plant growth. Soil fertiliser levels have to be sufficient to allow for the increase in pasture production.</p>

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIOD: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

Apply in water. Note 10mL product per 100 L = 10 ppm.

Mixing:

Add this product to spray vat and agitate. Add the non-ionic wetter at label rates. DO NOT allow solution to stand for more than 24 hours.

Citrus only: Ensure the spray mix is in the pH range of 4.0 to 6.0, however optimum results occur when the spray mix is in the pH range of 4.0 to 4.5. Use a portable pH meter or calibrated pH strips to determine the spray mix pH. Sample 2 or 3 times and average the reading. Adjust pH with a suitable acidifying solution and recheck the pH after 5 minutes agitation.

Citrus: If using an adjuvant which includes a spreader, DO NOT add additional spreader.

FRUIT QUALITY

Grapes

Bunch elongation (Stretch): This product, sprayed onto bunch stems when bunches are half to two-thirds of their final length (usually 10-15 cm), causes them to grow longer than normal and may prevent over-tightness of bunches. This application is usually applied 10-14 days before first sign of bloom.

Thinning: If sprayed on flowers as they are beginning to open, this product reduces the number of berries on the bunch; ie - it has a thinning effect.

Berry Size: The product increases berry size when applied after commencement of flowering. The effect is greatest when applied at shatter.

APPLICATION

Fresh Sultanas: Make sure vines are watered prior to application of this product. Apply in cool conditions or at night. Where this product is used for dried fruit production, drive-past overall spraying is adequate. For fresh fruit production, good results depend on the thorough wetting of bunches and spraying at the correct stage.

If the bunches are missed, they will not react to Gibberellic acid (GA).

FOR RECOMMENDATIONS FOR OTHER GRAPE VARIETIES CONSULT YOUR LOCAL DEPARTMENT OF AGRICULTURE.

Citrus: Spray in the cool of the morning or after an irrigation in the afternoon. Avoid product application within 4 weeks of an oil spray as oil restricts the uptake of F.S.A. Gibberellic Acid 100 SL. Typical water volumes of 5000 L for small tress, 7500 L for medium tress and 10,000 L for large trees. For creasing-reduction sprays to be effective, trees must be sprayed to point of run-off.

COMPATIBILITY

F.S.A. Gibberellic Acid 100 SL Growth Regulator can be combined in the spray vat with 2,4-D as a cling spray, as well as with products containing chlomequat 780, certain insecticide, fungicide or nutritional sprays. Always carry out a small test mix to check compatibility before spraying larger areas. Always check the label instructions for all products used.

CROP MANAGEMENT

Fresh Sultanas: Prune according to the vigour of the vine. Avoid exceeding 8 canes except in special circumstances. Commence thinning in late October. Thin bunches to leave one bunch per shoot (the largest). DO NOT exceed 30 bunches per vine. Bunch trimming should be carried out after fruit set to reduce the incidence of tight bunches.

Citrus: To maximize product effectiveness and fruit quality, ensure good penetration of spray by skirting and pruning the inside of trees. Hand thinning of fruit may also be of benefit. Use of F.S.A. Gibberellic Acid 100 SL, particularly at higher rates (20 ppm) can delay colouring by 1-2 weeks, early in the season.

WA Only

This product may be applied in some uses with PCPA

The PCPA is recommended for the setting of currants (dried fruit) but should not be applied to Early Madelaine or sultana grapes. PCPA has been shown to reduce bud fruitfulness with these varieties.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply under weather conditions, or from spraying equipment, that may cause spray to drift onto nearby susceptible plants, crops, cropping lands and pastures.

PROTECTION OF WILDLIFE, FISH, CRUSATACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with this product or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a dry cool, well-ventilated area out of direct sunlight.

Triple rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with Local, State or Territory government regulations. DO NOT burn empty containers or products.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with the eyes and skin. When opening the container, preparing the spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves. Wash hands after use. After each day's use wash gloves and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26, New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet (SDS), which can be obtained from the supplier.

CONDITIONS OF SALE

The sale, supply, storage, use and application of this product is beyond the control of the manufacturer, and, subject to this provision, all warranties, conditions, rights and remedies express or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application are excluded. Four Seasons Agribusiness Pty Limited and its associated entities shall not accept any liability whatsoever (including consequential loss) or however arising (including negligence) for any damage, injury or death connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

If Swallowed: Rinse mouth. Do Not induce vomiting. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Not combustible. Use extinguishing media suited to burning materials.

**IN AN EMERGENCY
DIAL 000
POLICE OR FIRE BRIGADE**

**FOR SPECIALIST ADVICE
IN AN EMERGENCY ONLY,
CALL 1800 033 111 (24 HOURS)**



Four Seasons Agribusiness Pty Ltd
287 Boorowa Street, Young, New South Wales, Australia, 2594
ABN 98 115 133 189 ACN 115 133 189 Phone 1300 449 255
www.fourseasonsag.com