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**READ SAFETY DIRECTIONS BEFORE OPENING OR USING**



**NAADCO  
200SG GIBBERELIC ACID GA3  
PLANT GROWTH REGULATOR**

**ACTIVE CONSTITUENT: 200 g/kg GIBBERELIC ACID**

For Foliar Spray Application  
to Certain Varieties of Grapes, Citrus and Prunes  
to Promote Desirable Harvest Effects,  
and  
to stimulate production  
of winter dormant grass-dominant,  
high intensity usage pastures

**IMPORTANT: READ THE ATTACHED LEAFLET  
BEFORE USING THIS PRODUCT.**

Contents: 500 g

NAADCO  
New Agricultural Development Company Pty Ltd  
Level 30  
133 Castlereagh St  
Sydney NSW 2000  
Tel: (02) 8090-8090  
Fax: (02) 8090-8092  
[www.naadco.com.au](http://www.naadco.com.au)

**STORAGE AND DISPOSAL**

Store in the closed, original container in a cool, well-ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemical 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 for appropriate disposal to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm 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 relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

**SAFETY DIRECTIONS**

Avoid contact with eyes and skin. Wash hands after use.

**FIRST AID**

If poisoning occurs, contact a doctor or Poisons Information Centre (Ph 13 1126).

**MATERIAL SAFETY DATA SHEET**

For further information refer to the Material Safety Data Sheet (MSDS) available from NAADCO.

**CONDITIONS OF SALE**

NAADCO shall not be liable for any loss, injury, damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale, supply, use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on NAADCO's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of NAADCO has any authority to add or to alter these conditions.

APVMA Approval No.: 64552/53326

Batch No:

Date of Manufacture:

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**READ COMPLETE DIRECTIONS FOR USE  
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**DIRECTIONS FOR USE****RESTRAINTS**

Apply in water. Note 5 g product per 100 L = 10 ppm.

Use with a non-ionic wetter.

DO NOT apply to plants under pest, nutritional or water stress.

DO NOT apply with aircraft.

<b>CROP</b>	<b>Rate /100 L</b>	<b>CRITICAL COMMENTS</b>
<b>CITRUS</b>		Apply in a minimum volume of 5,000L/ha to ensure thorough coverage of fruit DO NOT use where blemish is a problem For optimum results adjust the spray tank solution to pH 4.0-4.5 (see mixing instructions).
<b>Navel &amp; Valencia Oranges</b>	5-10 g	For reduction in Ceasing: Prior to applying NAADCO 200SG Gibberellic Acid, remove all previous season Valencia oranges. Apply NAADCO 200SG Gibberellic Acid when Navel/Valencia oranges are between 30-50 mm fruit size or golf ball stage (generally January-February). Rates lower than 10 g: <ul style="list-style-type: none"> <li>• Should be used when it is anticipated that fruit will be harvested for early markets.</li> <li>• May be used on application to late navel selections.</li> </ul>
<b>Navel Oranges</b>	5 g	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. NAADCO 200SG Gibberellic Acid is compatible with stop-drop sprays containing 2,4-D sodium salt. Use the 2, 4-D at 10 ppm.
<b>Mandarins</b>	5 g	To delay rind aging for late marketing and reducing rind blemish apply at three-quarters to full colour.
<b>Grapefruit</b>		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.

<b>CROP</b>	<b>Rate /100 L</b>	<b>CRITICAL COMMENTS</b>
<b>Lemons</b>		To delay rind aging, apply 4 to 6 weeks ahead of maturity of fruit.
<b>GRAPES</b>		
<b>Currants - dried fruit</b>	0.5 g + 100 ppm Cycocel	<b>To achieve berry thinning:</b> Apply single, combined application ( <b>commonly used in NSW and SA</b> ) at 100% capfall. Ensure thorough coverage of bunches.
	100 ppm Cycocel followed by 0.5 g NAADCO 200SG Gibberellic Acid	<b>To achieve berry thinning:</b> <b>Split Application (commonly used in Vic):</b> a) Apply Cycocel 7 days after bunch droop b) Apply NAADCO 200SG Gibberellic Acid at 80-100% capfall
	200 ppm Cycocel followed by 0.5 g NAADCO 200SG Gibberellic Acid	Use the 200 ppm rate of Cycocel on vigorous vines.
	300 ppm Cycocel followed by 0.5g NAADCO 200SG Gibberellic Acid	Use the 300 ppm rate of Cycocel on excessively vigorous Carina vines only. Ensure thorough coverage of bunches.
<b>Sultanas - dried fruit</b>	5 g	<b>To achieve berry thinning:</b> Apply when bloom or blossom is at 100% capfall stage (full flowering).
<b>Sultanas - fresh fruit</b>		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.
	5 g	<b>To achieve bunch elongation (stretch):</b> 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.

<b>CROP</b>	<b>Rate /100 L</b>	<b>CRITICAL COMMENTS</b>
	5 g	<b>To achieve thinning, two separate applications of 5 g within the same season are required:</b> Apply first application of 5 g at 40% capfall. Apply second application of 5 g at 80% capfall (usually 2-3 days later).
	5 g	
	15 g	<b>To achieve increase in berry size, two separate applications of 15 g within the same season are required:</b> Apply first application of 15 g when smallest berry size is 4 mm and larger berries up to 6mm (berry shatter may be incomplete at this size). Apply second application of 15 g 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.
	15 g	
<b>Early Madeleine</b>	10 g	<b>To achieve increase in berry size:</b> Apply when berries reach 4 mm in diameter. Excessively vigorous vines should be cinctured 3-5 days before treatment with this product.
<b>Perlette</b>	6 g	<b>To achieve thinning:</b> Apply at 70% capfall.
	10 g	<b>To achieve increase in berry size:</b> Following the 6g application for thinning, apply the 10 g application when berries reach 4-5 mm in diameter. Trim bunches as required.
<b>Flame Seedless</b>	5 g	<b>To achieve thinning:</b> Apply at 70% capfall
	15 g	<b>To achieve increase berry size, two separate applications of 15 g within the same season are required:</b> Apply first application of 15 g when berries have reached 7-9 mm in diameter Apply second application of 15 g when berries have reached 9-10 mm in diameter.
	15 g	
<b>PRUNES</b>	5 g	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 high dry-out ratio.

<b>CROP</b>	<b>Rate /100 L</b>	<b>CRITICAL COMMENTS</b>
<b>PASTURE</b> (Winter dormant grass-dominant, high intensity usage)	5 to 40 g	<p><b>To stimulate production of winter dormant grass-dominant pastures for high intensity grazing.</b></p> <p>Stimulation of winter pastures is dose dependent with higher dose rates giving greater stimulation of growth. As a starting point, lower rates of 5 to 20 g/100 L may be used on pastures dominant in phalaris as this grass is highly responsive to NAADCO 200SG Gibberellic Acid.</p> <p>Higher rates of 10 to 40 g/100 L may be needed on pastures dominant in perennial ryegrass, annual ryegrass or cocksfoot.</p> <p>A single application can be made at any time from the beginning of June until early September. Multiple applications can be made every 3 to 4 weeks with the final application no later than early September.</p> <p>Ensure pasture is grazed before application. However, NAADCO 200SG Gibberellic Acid is foliar absorbed so ensure that pasture has adequate leaf coverage prior to application.</p> <p>Growth stimulation is usually seen within 7 days of application and ceases around 3 to 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. Animals should be returned to the pasture no later than 4 weeks after application to ensure pasture does not become rank.</p> <p>Pastures should be a least 1 year old prior to NAADCO 200SG Gibberellic Acid application.</p> <p>Ensure that soil moisture is sufficient to support rapid plant growth and that soil fertilizer levels are 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

### 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 the commencement of flowering. The effect is greatest when applied at shatter.

### Mixing

Prepare a concentrate solution in 1 to 5 L of water with sufficient products for the required vat volume and strength of spray, add solution to water in the spray vat and agitate.

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

### Wetting Agent

Add a maximum of 100 ppm of a non-ionic spreader.

*Citrus only:* If using an adjuvant which includes a spreader, do not add additional spreader.

### Precautions

Use all solutions on the day of preparation.

## 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 maximise 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. Even trees with a history of little creasing may require treatment in "heavy crop" years or with age. NAADCO 200SG Gibberellic Acid, particularly at higher rates (20 ppm) can delay colouring by 1-2 weeks, early in the season.

## **GRAZING MANAGEMENT**

Application of NAADCO 200SG Gibberellic Acid should be made when pastures are ready to be rested. Rank pasture should be grazed down prior to application of NAADCO 200SG Gibberellic Acid. Remove all animals before applying product. Growth stimulation of pastures is usually seen within 7 days of application and ceases about 3-4 weeks after application. Stock should not be allowed to graze treated pasture for 3-4 weeks to ensure maximum pasture growth. NAADCO 200SG Gibberellic Acid mainly stimulates the growth of grasses and will have little effect on the growth of broad leaf pasture species such as clovers or on broad leaf weeds. Pastures treated with NAADCO 200SG Gibberellic Acid will grow rapidly with typical yellowing of foliage which reverts back to green after 3-4 weeks growth.

## **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 productions, 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 RECOMMENDATION 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 any oil spray as oil restricts GA uptake.

Typical water volumes are 5,000 L for small trees, 7,500 L for medium trees and 10,000 L for large trees. For creasing-reduction sprays to be effective, trees must be sprayed to runoff.

## **COMPATIBILITY**

NAADCO 200SG Gibberellic Acid can be combined in the spray vat with 2,4-D as a cling spray, as well as with products containing Cycocel, 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.

## **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.

## **PROTECTION OF LIVESTOCK, WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

DO NOT contaminate wetlands or watercourses with this product or used containers.

**STORAGE AND DISPOSAL**

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