

POISON

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Brevis®

Fruit thinner

ACTIVE CONSTITUENT: **150 g/kg METAMITRON**

Crop: Apples

Uses: Fruit thinning

Formulation type
Water Soluble
Granule **SG**



adama.com

NET CONTENTS: 1 - 20 kg

RESTRAINTS

DO NOT apply more than two applications of BREVIS® per season or more than 2.2 kg per hectare, per growing season.

DO NOT apply later than 16 mm stage of central fruitlet.

DO NOT apply by aircraft. Apply only by ground based application methods.

DO NOT use on trees to be used for propagation.

DO NOT apply herbicides that have the potential to volatilise and be taken up by foliage in the 7 days before or after BREVIS® application.

DO NOT apply to wet foliage e.g. early in the morning after a dew or shortly after rain.

DO NOT apply within 5 days of a frost or when frost is expected.

DO NOT allow drift onto non-target crops, especially stone fruit as drift may cause scorching of the foliage.

SPRAY DRIFT RESTRAINTS

DO NOT apply when wind speed is less than 3 or more than 20 kilometres per hour, as measured at the application site.

DO NOT apply during surface temperature inversion conditions at the application site.

DO NOT direct the spray above trees or vines during airblast applications. **TURN OFF** outward pointing nozzles at row ends and outer rows during airblast applications.

Users of this product **MUST make an accurate written record** of the details of each spray application within 24 hours following application, and must **KEEP** this record for at least 2 years.

The spray application details that must be recorded are:

1. Date with start and finish times of application
2. Location address and paddock(s) sprayed
3. Full name of this product
4. Amount of product used per hectare and number of hectares applied to
5. Crop or situation and weed or pest
6. Wind speed and direction during application
7. Air temperature and relative humidity during application
8. Nozzle brand, type, spray angle, nozzle capacity and spray system pressure measured during application
9. Name and address of person applying this product. (Additional record details may be required by the state or territory where this product is used.)

ADAMA

MANDATORY NO-SPRAY ZONES

No-spray zones for protection of the terrestrial environment:

DO NOT apply if there are sensitive crops, gardens, landscaping vegetation, protected native vegetation or protected animal habitat within **25 metres** downwind from the application area.

No-spray Zones for Protection of International Trade of animal commodities:

DO NOT apply if there are livestock, pasture or any land that is producing feed for livestock downwind from the application area and within **80 meters** downwind from the application area.

DIRECTIONS FOR USE

BREVIS® is a photosynthesis inhibitor for use on apple trees. BREVIS® is applied post-fruit set to thin excess fruitlets and assist with optimising fruit load and fruit size.

It is recommended to apply BREVIS® only to well-maintained orchards with adequate pest and disease control and good irrigation and nutrition.

BREVIS® is a photosynthesis inhibitor and factors influencing photosynthesis can impact the thinning effect. These factors need to be considered when deciding the appropriate application rate, number of applications and timing of the application.

Table 1. Factors increasing the activity/thinning effect of BREVIS®

PARAMETER	COMMENTS
Application of: <ul style="list-style-type: none">• Oil based products such as summer oils, adjuvants and crop protection products that contain oils (e.g. Penthiopyrad)• Other fruit thinners, applied either before/after or in a tank mix with BREVIS®.	For oil-based products, maintain an interval of at least 7 days before or after application of BREVIS®. Other fruit thinners: refer to the "Other Fruit Thinning Products" section in the General Instructions.
Warm night-time temperatures (>10° C) the week prior to and post application. Reduction in sunlight/light intensity (e.g. Cloud cover or overcast conditions, hail nets, etc.). The use of hail nets may increase the effectiveness of BREVIS® due to reductions in solar radiation and the existence of a microclimate.	Application should be postponed if trees are under stress e.g. after a period of cloudy weather, high day and/or unusually high night temperatures, drought, hail damage etc.; or when a stressful period is expected. If conditions favour over-thinning, postpone application or decrease the application rate and/or reconsider the need for a second application.
Orchard Management: Cultivars and clones respond differently to fruit thinning agents. Not all cultivars/ clones have been tested for crop safety under all environmental conditions and growing circumstances. In addition to seasonal weather conditions occurring prior to and after flowering, other factors can play an important role in the response to chemical thinning agents including: <ul style="list-style-type: none">• Tree age• Training systems• Rootstock• Tree vigour• Stress on trees• Orchard cropping history/orchard management practices• Other thinning sprays/plant growth regulators applied to the block. In orchards with vigorous growth, the activity of BREVIS® may be increased due to competition for photosynthates between the vegetation itself and the fruits. Strong and vigorous trees generally respond more to chemical fruit thinning.	DO NOT use on areas with a history of poor or variable fruit set or poor fruit retention or on trees with poor tree health/under stress e.g. frost damage, water stress, heat stress. DO NOT apply higher rates on varieties or trees with a history of issues with poor fruit retention or over-thinning responses to other thinning products. Use of BREVIS® on young apple orchards under 4 years is not recommended. Caution must be exercised when using the product for the first time or on new areas or blocks, to avoid over-thinning the crop. If the block history is unknown or there is a history of variable responses to fruit thinners, evaluate BREVIS® before commercially treating whole blocks by applying only to a small trial section within each block for 1 - 2 years.

Table 2. Apples

Before applying BREVIS[®], refer to **Table 1** for critical information about factors increasing the thinning effect of BREVIS[®]. Growers should consider all factors and orchard history before selecting the rate and the number of applications. If the block history is unknown or there is a history of variable responses to fruit thinners, evaluate BREVIS[®] by applying only to a small trial section within each block for 1-2 years before commercially treating whole blocks.

CULTIVARS	RATE	CRITICAL COMMENTS																	
Granny Smith, Rubens, Red Delicious, Royal Gala, Pink Lady, Fuji, Envy	1.1 to 2.2 kg/ha	<p>Timing of application: BREVIS[®] should be applied when the diameter of the central fruitlets is 8-16 mm. DO NOT apply later than the 16 mm stage. For best results, apply BREVIS[®] when daily temperatures range between 10°C and 25°C. If weather conditions prior to application are outside the recommended range and trees are under stress, postpone application until conditions are more suitable for applying BREVIS[®]. Refer to Table 1 for factors increasing the effect of BREVIS[®] or causing tree stress.</p> <p>Application rate: BREVIS[®] can be applied up to a maximum of 2.2 kg/ha per season according to either of the following spray programs: 1. A single application at 1.1 to 2.2 kg/ha; OR 2. Two applications of 1.1 kg/ha A single spray program of BREVIS[®] can be used for greater flexibility of application timing depending on crop and weather conditions. Use the lower rate to thin fewer fruitlets, and on easy to thin cultivars. Use the higher rate to increase thinning, on normal to thin cultivars and/or when applying later in the BREVIS[®] application window. Apply BREVIS[®] as two applications of 1.1 kg/ha where the cultivar can be easily thinned by the higher rate of BREVIS[®]. When applying BREVIS[®] as a two spray program, use a minimum interval of 5 days between applications. DO NOT apply more than 2.2 kg/ha of BREVIS[®] per season. In certain situations such as heavy fruit set, hard to thin varieties and/or growing conditions not conducive to chemical thinning; hand-thinning may be required after the maximum seasonal rate of BREVIS[®] has been applied to the crop, to achieve the desired fruit size range/yield.</p> <p>Spray application: Apply in sufficient water volume to give good coverage. DO NOT apply past the point of runoff. The rate applied must be based on the target rate per hectare as listed above. The following application guide table can assist to convert the rate per hectare to a rate per 100 L for a range of target spray volumes.</p> <p>Application guide for BREVIS[®]:</p> <table border="1"> <thead> <tr> <th>Rate (kg/ha)</th> <th>Water volume (L/ha)</th> <th>Rate (g/100 L)</th> </tr> </thead> <tbody> <tr> <td rowspan="3">1.1</td> <td>1000</td> <td>110</td> </tr> <tr> <td>1500</td> <td>73</td> </tr> <tr> <td>2000</td> <td>55</td> </tr> <tr> <td rowspan="3">2.2</td> <td>1000</td> <td>220</td> </tr> <tr> <td>1500</td> <td>147</td> </tr> <tr> <td>2000</td> <td>110</td> </tr> </tbody> </table> <p>DO NOT apply using concentrate spray volumes exceeding 220 g of BREVIS[®] per 100 L water.</p>	Rate (kg/ha)	Water volume (L/ha)	Rate (g/100 L)	1.1	1000	110	1500	73	2000	55	2.2	1000	220	1500	147	2000	110
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Table 2. Apples (continued)

<p>Before applying BREVIS[®], refer to Table 1 for critical information about factors increasing the thinning effect of BREVIS[®]. Growers should consider all factors and orchard history before selecting the rate and the number of applications. If the block history is unknown or there is a history of variable responses to fruit thinners, evaluate BREVIS[®] by applying only to a small trial section within each block for 1-2 years before commercially treating whole blocks.</p>		
CULTIVARS	RATE	CRITICAL COMMENTS
Granny Smith, Rubens, Red Delicious, Royal Gala, Pink Lady, Fuji, Envy	1.1 to 2.2 kg/ha	<p>Cultivar The thinning effect of BREVIS[®] can vary by cultivar and the efficacy has not been tested on all cultivars. For advice on the use of BREVIS[®] by cultivar, contact your local Adama representative.</p> <p>Crop Safety BREVIS[®] can cause minor chlorotic/necrotic areas on leaves and some minor leaf drop. The leaf effects from BREVIS[®] applications had no impact on crop development or fruit yield/quality on any of the apple cultivars tested. However, BREVIS[®] has not been tested on all cultivars. For advice on the crop safety of BREVIS[®] by cultivar, contact your local Adama representative.</p>

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

WITHHOLDING PERIODS

HARVEST: NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING: DO NOT ALLOW LIVESTOCK TO GRAZE INTER-ROWS IN ORCHARDS TREATED WITH BREVIS[®].

GENERAL INSTRUCTIONS

MIXING

Ensure the sprayer is clean and in good working order. Calibrate as per the sprayer manufacturer's recommendations.

Half fill the spray tank with clean water and begin agitation. Continue to fill the spray tank and slowly add the required quantity of BREVIS[®]. Triple rinse empty container and add rinsate to the spray tank. Continue agitation until spraying is complete.

DO NOT leave the sprayer standing with the spray mixture in it for prolonged periods.

APPLICATION

Ensure even and thorough coverage of foliage. BREVIS[®] has a thinning effect only on the treated parts of the trees and should only be applied to the parts of the crop canopy that require thinning. Application should be made using appropriate spray equipment and sufficient water to provide adequate penetration and coverage. Equipment setting and water volume may need to vary, depending on the tree height and canopy. *See Application rate guide for BREVIS[®]* section in **Table 2**, for water volume and corresponding rates for BREVIS[®]. Take care not to overlap sprays during application.

BREVIS[®] is rainfast in 2 hours for up to 10 mm of rainfall. Heavier rainfall after application may reduce the foliar uptake of BREVIS[®]. If >10 mm rainfall is forecast but will only marginally exceed 10 mm i.e. by ≤10 mm; use an 8 hour rainfastness interval. If heavier

rainfall or prolonged cloudy/rainy conditions are forecast, it may be necessary to postpone application. Before application, review the recommendations in Tables 1 and 2 regarding weather conditions, light intensity and over-thinning risk.

Other Fruit Thinning Products

The use of BREVIS[®] in conjunction with other fruit thinners (primary or secondary thinners) has not been thoroughly evaluated under local conditions. Application of other thinners in conjunction with BREVIS[®] may impact the efficacy and/or crop safety. Adama Australia does not recommend tank-mixing BREVIS[®] with other fruit thinners.

Cleaning Spray Equipment

After using BREVIS[®], empty the tank completely and drain the entire system clear of waterways and susceptible vegetation. Thoroughly wash out the spray tank using a minimum of 3 rinse cycles. Drain the tank and clean any tank, pump, line and nozzle filters.

Wetting Agents/Surfactants

The addition of a wetting agent/surfactant is not recommended.

COMPATIBILITY

BREVIS[®] should NOT be applied in a tank mix with other products.

PRECAUTION

DO NOT allow bystanders to come into contact with the spray cloud.

RE-ENTRY

DO NOT allow entry into treated areas until the spray has dried.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. Triple-rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple-rinse container for disposal. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any *drumMUSTER* collection or similar container management program site. The cap should not be replaced, but may be taken separately.

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 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

Harmful if swallowed. Will damage the eyes. Avoid contact with eyes. If product in eyes, wash it out immediately with water. When opening the container and preparing the spray, wear face shield or goggles. Wash hands after use. After each day's use, wash face shield or goggles.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SDS

A Safety Data Sheet (SDS) for this product is available at adama.com or from Adama Australia on request. Call Customer Service on 1800 423 262.

CONDITIONS OF SALE

The use of BREVIS® Fruit Thinner being beyond the control of the manufacturer, no warranty expressed or implied is given by Adama Australia regarding its suitability, fitness or efficiency for any purposes for which it is used by the buyer, whether in accordance with the Directions for Use or not. Adama Australia accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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