

READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Actavan[®] Bio

Plant Defence Elicitor

ACTIVE CONSTITUENT: **900 g/L BEET EXTRACT**

Elicitor that enhances natural plant defences
increasing their resistance to Botrytis infection.

Formulation type
Soluble
Concentrate

SL



adama.com

NET CONTENTS: 1 - 1000 L

RESTRAINTS

DO NOT apply if rain is expected prior to spray solution drying.

DO NOT apply this product as a post-infection curative spray to control disease in crops.

SPRAY DRIFT RESTRAINTS

Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift.

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

DO NOT apply in a manner that may cause an unacceptable impact to native vegetation, agricultural crops, landscaped gardens and aquaculture production, or cause contamination of plant or livestock commodities, outside the application site from spray drift. Wherever possible, correctly use application equipment designed to reduce spray drift and apply when the wind direction is away from these sensitive areas.

DO NOT apply unless the wind speed is between 3 and 20 kilometres per hour at the application site during the time of application.

DO NOT apply if there are hazardous surface temperature inversion conditions present at the application site during the time of application. Surface temperature inversion conditions exist most evenings one to two hours before sunset and persist until one to two hours after sunrise.

DIRECTIONS FOR USE

CROP	DISEASE	RATE	CRITICAL COMMENTS
Table and wine grapes	Botrytis bunch rot/ Grey Mould (<i>Botrytis cinerea</i>) - Suppression	4 L/100 L Apply with a non-ionic adjuvant at 0.01% v/v	Apply up to 4 applications from early fruit set (E-L 27) through to 14 days prior to harvest. Applications should ideally target early fruit development stages. Use the 400 mL/100 L rate for spray volumes of up to 1000 L/ha water. If using higher application volumes, dilute accordingly. Do not exceed a total use rate of 4 L/ha per application. ACTAVAN® BIO does not have curative activity. Use as a preventative spray as part of a season long program for botrytis management, alternating with fungicides from a different mode of action group. Apply from E-L 27 on a 14-21 day interval to enhance the plants own defences and physiological structure as fruit develop. Apply by dilute or concentrated spraying equipment – refer to Application, Compatibilities and Use of Adjuvants section in the General Instructions for more details.

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: NOT REQUIRED WHEN USED AS DIRECTED.

GENERAL INSTRUCTIONS

ACTAVAN® BIO is a natural elicitor that enhances natural plant defenses, stimulating systemic acquired resistance (SAR) to Botrytis infection of grapes.

Shake container prior to opening. Half fill the spray tank with clean water and with the agitator operating, add the required quantity of ACTAVAN® BIO.

Top up the spray tank to the required volume with clean water with the agitator running. Maintain agitation while spraying.

MIXING

When applying products in tank mixtures, wettable powders or dry flowable formulations (e.g. water dispersible/soluble granules) should be added to the spray tank first. Allow sufficient time for any granular products to sufficiently disperse before adding suspension concentrates, dispersible concentrates, suspo-emulsions or emulsifiable concentrates, water soluble salts or formulations (such as ACTAVAN® BIO) and then oil dispersions. Add any adjuvants last and at the end of tank filling.

APPLICATION

Thorough coverage of the canopy is essential.

Dilute Spraying: Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off. The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice. Add the amount of product specified in the Directions For Use Table for each 100 L of water. Spray to the point of run-off. The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows. ACTAVAN® BIO has been developed using dilute spray volumes between 700-1500 L/ha.

Concentrate Spraying (Grapes): Use a sprayer designed and set up for the concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed. Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume. Determine an appropriate dilute spray volume (See Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate. The mixing rate for concentrate can then be calculated in the following way:

Example Only:

Dilute spray volume as determined above: for example, 1000 L/ha

Your chosen concentrate spray volume: for example, 500 L/ha

The concentration factor in this example is: $2 \times$ (i.e., $1,000 \text{ L} / 500 \text{ L} = 2$)

If the dilute label rate is 400 mL/100 L, then the concentrate rate becomes 2×400 , that is 800 mL/100 L of concentrate spray.

The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows. For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

USE OF ADJUVANTS

ACTAVAN® BIO is recommended to be applied with the following adjuvants.

Crop Type	Rate of Adjuvant [#]
Grapes	Apply with a non-ionic adjuvant (e.g. Viti-Wet ¹) at 0.01% v/v

[#] % rate is on v/v basis

RAINFASTNESS

Avoid making spray applications if rain is expected before the spray can dry completely.

ACTAVAN® BIO can be considered rainfast once the spray has dried completely. Where ACTAVAN® BIO is applied in tank mix, use the longer of the partner products rainfast periods to determine when to apply.

COMPATIBILITY

For information on compatibility, please contact ADAMA Australia.

FUNGICIDE RESISTANCE WARNING

ACTAVAN® BIO is a natural plant defence elicitor. The development of resistance to this mode of action is not expected. It is recommended that it is used in conjunction with complimentary disease management measures such as:

- Use of effective pruning techniques to enhance air flow through the vine canopy.
- Use of alternative products that promote overall vine health.
- Use of other products that complement the activity of ACTAVAN® BIO.

When applied in a tank mix with standard program sprays, observe CropLife resistance management strategies for those tank mix partners.

The following recommendations also apply to the use of ACTAVAN® BIO:

- Apply ACTAVAN® BIO as a protectant spray only.
- Due to the physiological mechanism of activity, applications are recommended targeting the early fruit development stage.
- ACTAVAN® BIO applications are to be made preventatively from early fruit set (E-L 27).
- ACTAVAN® BIO can be used as part of a broader Botrytis management program in conjunction with fungicides from a different mode of action.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or watercourses with the chemical or used containers.

STORAGE AND DISPOSAL

KEEP OUT OF REACH OF CHILDREN

Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight. Avoid storage at low temperatures.

DrumMUSTER Containers: 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. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemical on site. 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

Wash hands after use.

FIRST AID

First aid is not generally required. If in doubt, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

SDS

Additional information is listed in the safety data sheet (SDS). A safety data sheet for ACTAVAN® BIO is available from adama.com or call Customer Service on 1800 423 262.

CONDITIONS OF SALE: The use of ACTAVAN® BIO 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 purpose for which it is used by the buyer, whether in accordance with the directions or not and ADAMA Australia. accepts no responsibility for any consequence whatsoever resulting from the use of this product.

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