CAUTION

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

Flute® 50 EW

FUNGICIDE

ACTIVE CONSTITUENT: 50 g/L CYFLUFENAMID

GROUP U6 FUNGICIDE

A fungicide for the control of powdery mildew in wheat, grapevines, cucurbits, strawberries and strawberry runners and plug plants as per the Directions for Use table.

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AgNova TECHNOLOGIES
An American Vanguard Company

Net Contents 1 L and 5 L

DIRECTIONS FOR USE

RESTRAINTS

DO NOT apply by air as uneven coverage is likely to result.

Except when applying with vineyard airblast equipment, **DO NOT** apply with spray droplets smaller than a **MEDIUM** spray droplet size category.

SPRAY DRIFT RESTRAINTS

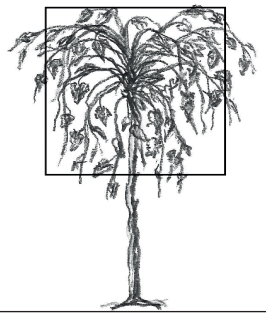
Specific definitions for terms used in this section of the label can be found at apvma.gov.au/spraydrift

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.

CROPS	DISEASE	RATE	WHP	CRITICAL COMMENTS
Grapevines	Powdery mildew (*Erysiphe necator)*	*Dilute spraying*: 25 to 35 mL/100 L water *Concentrate spraying*: Refer to the Mixing/ Application section	5 weeks	**Apply before first sign of disease or when conditions (varietal and climatic) are conducive to disease development as part of a disease management program.** Apply one to two applications from E-L 18 (caps changing colour) to E-L 31 (berries pea-size) using the full dilute spray volume matched with the size of the target canopy. Use a spray interval of 10 to 14 days in a program of effective powdery mildew fungicides to ensure that new growth is protected. Use the shorter interval during periods of rapid vine growth. A rate of 25 mL/100 L is applicable in most situations. If conditions favour high levels of infection or if powdery mildew levels were significant in the previous season, use the higher rate. A rate of 35 mL/100 L may be used with a spray interval up to 21 days provided disease pressure is low and before rapid vine growth or once vine growth has slowed. Apply by dilute or concentrate spraying equipment. Apply in sufficient water volume to obtain thorough coverage of the crop. The required dilute spray volume will increase and the sprayer setup and operation may also need to be changed, as the crop grows. 1 m x 1 m vine canopy (end of row)  As an example, a 1 m x 1 m canopy (refer diagram) with a 3 m row spacing requires a true dilute water volume of around 1000 L/ha when using dilute application. In this case the dose will be 350 mL/ha when using a rate of 35 mL/100 L. For the same canopy, if using concentrate application equipment achieving good coverage applying 500 L/ha, then the concentrate factor is 2X. This means a rate of 70 mL/100 L. The dose will remain at 350 mL/ha. For further advice on application, contact AgNova. Refer to the section on concentrate spraying if low spray volumes are to be used. Apply the same amount of product to the target crop whether applying by dilute or concentrated spray volumes. Do not apply at concentrations greater than 3X. Do not apply more than 2 (two) Flute® 50 EW Fungicide sprays per season, and follow the CropLife Australia resistance management guidelines.

CROPS	DISEASE	RATE	WHP	CRITICAL COMMENTS
Cucurbits	Powdery mildew (*Podosphaera xanthii*)	250 mL/ha or *Glasshouse:* 25 mL/100 L	1 day	**Apply before first sign of disease or when conditions are conducive to disease as part of a disease management program.** Apply sprays at 7 to 10 day intervals. Use the shorter intervals under conditions favouring disease infection. *Glasshouse*: To ensure thorough spray coverage of the target crop, apply to the point of run-off. The required dilute spray volume will change and the sprayer setup and operation may also need to be changed, as the crop grows. **For resistance management: Do not apply FLUTE 50 EW as consecutive sprays or apply more than 2 sprays per crop.**
Strawberries (field and protected cropping)	Powdery mildew (*Podosphaera aphanis*)	*Dilute Spraying* 35 mL/100 L Use when spray volume exceeds 1000 L/ha OR 350 mL/ha Use when spray volume is less than 1000 L/ha Do not apply volumes less than 500 L/ha	Nil	Reduce background levels of disease by removing infected plant debris and/or rotted fruit throughout the season. A fungicide program for the control of powdery mildew should commence early before disease appears. **Apply FLUTE 50 EW before first sign of disease or when conditions are conducive to disease development as part of a disease management program.** Apply sprays at 7 to 10 day intervals. Use the shorter intervals under conditions favouring disease infection. To ensure thorough spray coverage of the crop, apply to the point of run-off targeting foliage, flowers and fruit. The required dilute spray volume will change and the sprayer setup and operation may also need to be changed, as the crop grows. **Do not apply FLUTE 50 EW as consecutive sprays or apply more than 2 sprays per fruiting season, and follow the CropLife Australia resistance management guidelines.**
Strawberry runners and plug plants		*Dilute spraying:* 350 mL/ha Do not apply volumes less than 500 L/ha		**Apply a maximum of 2 sprays per cropping season with at least 2 sprays of products from different Mode of Action Groups between them.** In addition, a minimum of 2 sprays from different Mode of Action Groups should be made between the last FLUTE 50 EW spray and digging. Apply in a spray volume of 600–800 L water per hectare.
Wheat	Powdery mildew (*Blumeria graminis tritici*)	100 to 150 mL/ha	H: Nil G: 4 weeks	**Regularly monitor the crop and spray at the first sign of the disease during the tillering stage, and before disease levels reach 5% of the leaf.** Ensure thorough coverage of stems and leaves. Follow the application of FLUTE 50 EW with a different mode of action fungicide 21 to 28 days later. Use lower rates when tank mixing with another fungicide registered for the control of other foliar diseases or in varieties rated as high resistance to powdery mildew or in low density crops. Use higher rates in varieties rated as low to moderate resistance to powdery mildew or in crops with high density canopies or when using a longer spray interval or under conditions favouring heavy disease pressure. **Only apply one (1) application of FLUTE 50 EW per crop.** **Do not apply after growth stage BBCH 39 (Flag leaf fully unrolled, ligules just visible).**

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

WITHHOLDING PERIODS

HARVEST:
GRAPES (DOMESTIC) – DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION.
GRAPES (FOR WINE INTENDED FOR EXPORT) – CONTACT AGNOVA TECHNOLOGIES PTY LTD OR CONSULT YOUR WINERY OR THE AUSTRALIAN WINE RESEARCH INSTITUTE (AWRI) FOR THE RECOMMENDED WITHHOLDING PERIOD.
CUCURBITS – DO NOT HARVEST FOR 1 DAY AFTER APPLICATION.
STRAWBERRIES – NIL.
WHEAT – NOT REQUIRED WHEN USED AS DIRECTED.

GRAZING:
WHEAT – DO NOT GRAZE OF CUT FOR STOCKFOOD FOR 4 WEEKS AFTER APPLICATION.

EXPORT OF TREATED PRODUCE

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with FLUTE 50 EW.

Fruit: If growing fruit for export (either fresh or dried), consult your peak industry body or AgNova Technologies Pty Ltd for the latest information on MRLs and import tolerances.

Wine: FLUTE 50 EW should not be applied later than E-L 31 [berries pea-size] when grapes are to be used to make wine for export. Contact your winery or the Australian Wine Research Institute (AWRI) at www.awri.com.au for the updated information on MRLs and overseas import tolerances BEFORE using FLUTE 50 EW.

Wheat Grain and Fodder: Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with Flute 50 EW. If you are growing produce for export, please check with AgNova Technologies for the latest information on MRLs and import tolerances BEFORE using FLUTE 50 EW.

GENERAL INSTRUCTIONS

MIXING/APPLICATION

Add the required quantity of FLUTE 50 EW to a partly filled spray tank and agitate. Complete filling while agitating. Ensure the spray mixture is properly agitated before restarting after stoppage.

Grapevines

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 setup and operation may also need to be changed as the crop grows.

Concentrate Spraying

- Use a sprayer designed and set up for 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 spraying can then be calculated in the following way:

EXAMPLE ONLY

1. Dilute spray volume as determined above: For example 1000 L/ha
2. Your chosen concentrate spray volume: For example 500 L/ha
3. The concentration factor in this example is: 2X (i.e.1000 L ÷ 500 L = 2)
4. If the dilute label rate is 35 mL/100 L, then the concentrate rate becomes 2 x 35, that is 70 mL/100 L of concentrate spray.

- The chosen spray volume, amount of product /100 L of water, and the sprayer setup and operation may need to be changed as the crop grows.
- Do not use a concentration rate higher than that specified in the Critical Comments.
- When concentrate spraying, apply using a minimum spray volume of 300 L/ha or a maximum concentration factor of 3X, whichever is the greater spray volume.

  Example 1. The true dilute volume is 1200 L/ha, therefore the minimum spray volume is 400 L/ha (3X).

  Example 2. The true dilute volume is 750 L/ha, therefore the minimum spray volume is 300 L/ha (2.5X).

- For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Wheat

Monitor the crop regularly for symptoms of disease. Spray at the first sign of powdery mildew disease. Flute 50 EW's active is specific to powdery mildew, therefore, if other foliar diseases are present or conditions are favourable for the development of other foliar diseases, then Flute 50 EW should be applied in a tank mix with a fungicide registered for other foliar diseases.

Only a single spray of Flute 50 EW may be applied per season to the crop and as part of a fungicide program which includes other modes of action fungicides for powdery mildew control. Application through ground spray equipment only. Apply product using a spray volume of 80–150 L/ha and a MEDIUM spray quality. Ensure good spray coverage of all plant parts susceptible to powdery mildew.

FUNGICIDE RESISTANCE WARNING

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FLUTE 50 EW Fungicide is a member of the phenyl-acetamide group of fungicides. For fungicide resistance management, the product is a Group U6 fungicide. Some naturally occurring individual fungi resistant to FLUTE 50 EW Fungicide and other Group U6 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by FLUTE 50 EW Fungicide or other Group U6 fungicides, thus resulting in a reduction in efficacy and possible yield loss.

Since the occurrence of resistant fungi is difficult to detect prior to use, AgNova Technologies Pty Ltd accepts no liability for any losses that may result from the failure of FLUTE 50 EW Fungicide to control resistant fungi. Refer to Directions for Use table and published CropLife Resistance Management Strategies www.croplifeaustralia.org.au

COMPATIBILITY

For information on compatibility contact your local AgNova representative or visit our website at agnova.com.au

PRECAUTIONS

Re-Entry Period

Do not allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. Clothing must be laundered after each day's use. For glasshouses and other enclosed areas, do not allow re-entry until spray has dried or dissipated, and enclosed area has been thoroughly ventilated.

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 or pastures.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or water courses 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. 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 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

Will irritate the skin. May irritate the eyes. Avoid contact with the eyes and skin. When opening the container and preparing the spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length chemical resistant gloves. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). If product is on skin, immediately wash area with soap and water. 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

If additional hazard information is required refer to the Safety Data Sheet. For a copy visit our website at agnova.com.au

CONDITIONS OF SALE

AgNova Technologies Pty Ltd shall not be liable for any consequential or other loss or damage relating to the supply or subsequent handling or use of this product, unless such liability by law cannot be lawfully excluded or limited. All warranties, conditions or rights implied by statute or other law which may be lawfully excluded are so excluded. Where the liability of AgNova Technologies Pty Ltd for breach of any such statutory warranties and conditions cannot be lawfully excluded but may be limited to it re-supplying the product or an equivalent product or the cost of a product or an equivalent product, then the liability of AgNova Technologies Pty Ltd for any breach of such statutory warranty or condition is so limited.

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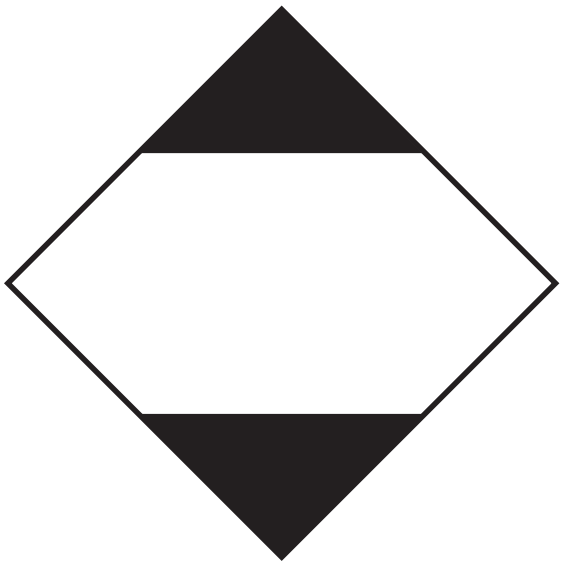

Additional statements as required by Safe Work Australia in accordance with the Globally Harmonised System of Classification and Labelling (GHS).
May cause an allergic skin reaction. Avoid breathing mist/vapours/spray. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse.

In a transport emergency dial 000, Police or Fire Brigade.
For specialist advice in an emergency only, call 1800 033 111 (24 hours).

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