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

Flint® 500 WG

FUNGICIDE

ACTIVE CONSTITUENT: 500 g/kg TRIFLOXYSTROBIN

GROUP 11 FUNGICIDE

For the control of certain diseases of apples, bananas, grapevines, pears and strawberries as specified in the DIRECTIONS FOR USE table

DIRECTIONS FOR USE

RESTRAINTS

DO NOT mix this product with any type of spray additive in any crop, with the exception of water miscible crop oil in bananas only.

DO NOT apply by air to apples, pears, grapevines or strawberries.

CROP	DISEASE	RATE	CRITICAL COMMENTS
Apples Pears	Powdery mildew of apples Protective control of: Apple scab, Pear scab	Dilute spraying 10 g/100 L water Concentrate Spraying Refer to the Mixing/ Application section.	This use is subject to an CropLife Australia resistance management strategy. Follow a complete disease management program for scab by rotating with fungicides from unrelated chemical groups according to the CropLife Australia fungicide resistance management guidelines. Flint 500 WG should be applied as a block of three treatments at 7 to 10 day intervals over flowering and into early fruit development. Use short spray intervals when disease pressure is high. DO NOT apply more than three applications of Flint 500 WG per season (part of the CropLife Australia resistance management strategy). When used over flowering, apply Flint 500 WG alone. Apply with a DMI (Group 3) scab fungicide if intervals are longer than 10 days. Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Do not use in equipment that requires rates greater than 50 g/100 L of water (5X).
Grapevines	Powdery mildew, Suppression of downy mildew	Dilute spraying 15 g/100 L water Concentrate Spraying Refer to the Mixing/ Application section.	Apply thoroughly as part of a powdery mildew spray program. The critical crop timing for powdery mildew control is from early flowering to pre bunch closure. DO NOT allow spray intervals in the above program to exceed 14 days. DO NOT apply more than two applications of Flint 500 WG per season. Apply by dilute or concentrate spraying equipment. Apply the same amount of product to the target crop whether applying this product by dilute or concentrate spraying methods. Do not use in equipment that requires rates greater than 75 g/100 L of water (5X). Do not apply in water volumes less than 250 L/ha. This use is subject to a CropLife Australia resistance management strategy. For further information refer to the CropLife Australia website: www.croplife.org.au .



CROP	DISEASE	RATE	CRITICAL COMMENTS
Bananas (Qld, NSW, WA & NT only)	Yellow Sigatoka, black sigatoka, cordana leaf spot	150 g/ha (plus a high quality water miscible mineral crop oil at up to 5 L/ha*)	<p>This use is subject to a CropLife Australia resistance management strategy.</p> <p>Flint should be applied as part of a regular program of fungicide sprays, alternating with fungicides from different chemical groups. For optimum disease control maintain thorough de-leafing practices, in accordance with industry guidelines, to reduce disease inoculum. Old leaves, and leaves with advanced lesions should be removed, or infected parts of the leaf removed, prior to the application of Flint.</p> <p>Intervals between fungicide applications generally should be 14-21 days, but should be modified for locality, disease conditions, and leaf emergence growth rates.</p> <p>Flint should be diluted with sufficient water to ensure thorough coverage of all leaf surfaces (minimum 20 L/ha spray volume when applied by air).</p> <p>*When conditions are favourable for disease development, a high quality (narrow-range) mineral crop oil should be applied with Flint. Refer to the Compatibility section of the label for information on mineral crop oils. Use the maximum rate of oil appropriate to the conditions at time of spraying, up to 5 L/ha. Flint should only be applied without oil during dry conditions or when disease pressure is low.</p> <p>Do not apply consecutive Flint applications. Apply a minimum of 2 sprays from a different activity group, e.g. Folicur® 430 SC, between sprays of Flint or other Group 11 fungicides. In the Tropics (North Qld, NT and Northern WA) DO NOT apply Group 11 sprays in the months of May, June, July, August and September.</p> <p>Apply a maximum of 4 applications of Flint (or other Group 11 fungicides) to any banana block in a 12-month period. Flint should not be used where foliar diseases are in an advanced stage of development.</p>
Strawberries	Powdery mildew (<i>Sphaerotheca macularis</i>)	<p>Dilute spraying 20-25 g/100 L Use when spray volume exceeds 800 L/ha</p> <p>OR</p> <p>Low volume 200-300 g/ha Use when spray volume is less than 800 L/ha Do not apply volumes less than 500 L/ha</p>	<p>This use is subject to a CropLife Australia resistance management strategy.</p> <p>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 from early flowering. Apply Flint strategically as part of a program when conditions favour disease development. DO NOT apply consecutive Flint treatments, including from one season to the next. Always alternate Flint with a registered fungicide of a different chemical group. Do not allow the interval between Flint and an alternative group fungicide to exceed 10 days. Use a shorter application interval when disease pressure is high. Ensure adequate penetration of the canopy and coverage of foliage and flowers and/or fruit. DO NOT apply more than 3 applications of Flint 500 WG per season.</p> <p>Use the higher rate where disease pressure is high. Addition of a non-ionic wetting agent is not required.</p>

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

**WITHHOLDING PERIODS:**

Apples, pears, grapes:	DO NOT HARVEST FOR 5 WEEKS AFTER APPLICATION
Bananas:	NOT REQUIRED WHEN USED AS DIRECTED
Strawberries:	DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

EXPORT HARVEST INTERVALS:

Contact Bayer Crop Science for the latest information on Export Harvest Intervals.

EXPORT OF TREATED PRODUCE

Maximum Residue Limits (MRLs) may be lower or not be established in export markets. Check with your Industry Association or Bayer Crop Science prior to using this product on crops destined for export. Bagging of bunches prior to spraying will reduce the likelihood of detectable residues occurring in **bananas**.

Apples, Pears, Strawberries and Table Grapes: If you are growing apples, pears or strawberries for export, or table grapes for export (either fresh or dried), see the comment under Export Harvest Interval.

Wine Grapes: Where this product will be used on grapes that will be used to produce wine destined for export markets, seek advice from the Australian Wine Research Institute or Bayer Crop Science to ensure the wine will meet the requirements of the intended importing country.

GENERAL INSTRUCTIONS**Integrated Pest Management**

Flint 500 WG is suitable for use in IPM programmes. Flint 500 WG is harmless to predators in situations where integrated mite control is practised.

Compatibility

Apples, pears and grapevines: DO NOT mix Flint 500 WG with surfactants as damage to flowers and russetting may occur. Do not mix concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of Bayer Crop Science, all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, Bayer Crop Science cannot be responsible for the behaviour of such mixtures.

Bananas: DO NOT mix Flint 500 WG with any additive other than high quality (narrow-range) water miscible mineral crop oils. As formulations of mineral spray oils are beyond the control of Bayer Crop Science please refer to Bayer Crop Science, your chemical reseller, aerial applicator or the manufacturer of the oil to ensure that it is physically and biologically compatible with Flint. **IMPORTANT** – if using Flint with a mineral crop oil in crops with exposed (un-bagged) bunches, please refer to the Special Warning section following.

Special Warning (bananas)

There are certain conditions when the surface of recently emerged fruit is particularly prone to marking damage from spray applications. In circumstances where application will be made to very rapidly growing fruit in hot conditions with strong direct light, it is recommended that all emerged bunches be bagged prior to spraying to minimise risk of fruit marking.

If using Flint with a mineral oil in banana blocks with un-bagged bunches, please contact Bayer Crop Science, your chemical reseller or aerial applicator for up to date information regarding the oil formulations recommended by Bayer Crop Science.

Mixing and Application**Apples, Pears and Grapes**

Add the required amount of product directly to the spray tank and mix well. Apply only as a ground application, by dilute or concentrate spray methods.

Tank Mixing: When mixing Flint 500 WG and other water dispersible granule (WG) or wettable powder (WP) formulations, ensure they are added and mixed well prior to adding emulsifiable concentrate (EC) or suspension concentrate (SC) products. Wettable powder (WP) formulations should be pre-mixed separately and then added to the spray tank.

Dilute Spraying (apples, pears and grapevines)

- ◆ 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.

Concentrate Spraying (apples, pears and grapevines)

- ◆ 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 250 L/ha
 3. The concentration factor in this example is: 4 X (i.e. 1000 L ÷ 250 L= 4)
 4. If the dilute label rate is 10 g/100 L, then the concentrate rate becomes 4 x 10, that is 40 g/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.
- ◆ Do not use a concentrate rate higher than that specified in the Critical Comments.

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

Mixing and Application

Bananas

Add the required amount of product to half of the water in the spray tank. Then add the water miscible mineral crop oil (if using) and the remainder of the water and mix well.

If the banana crop is destined for export, the bananas should be bagged prior to spraying to ensure that MRLs of trifloxystrobin are below the MRLs for export destinations.

Aerial application (bananas)

Apply at least 20 L of spray mixture per hectare for aerial application. DO NOT apply within 10 metres upwind of aquatic areas including, natural streams, rivers and waterways.

Mixing difficulties may occasionally be encountered when using low application volumes in combination with very soft water. The problem can be readily alleviated by the addition of a suitable buffering agent to the spray tank.

Strawberries

Add the required amount of product to half of the water in the spray tank. Then add the remainder of the water and mix well. Apply at least 500 L of spray mixture per hectare.

FUNGICIDE RESISTANCE WARNING

GROUP	11	FUNGICIDE
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Flint 500 WG is a member of the strobilurin group of fungicides. For fungicide resistance management Flint 500 WG is a Group 11 fungicide. Some naturally occurring individual fungi resistant to the product and other Group 11 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 this product or other Group 11 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, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant fungi.

Resistance Management Strategy

Flint 500 WG may be subject to specific resistance management strategies. For further information contact your local supplier, Bayer Crop Science representative, local agricultural department agronomist or visit www.croplife.org.au.



PRECAUTIONS

Re-entry

DO NOT allow entry into treated areas until the spray has dried, unless wearing cotton overalls buttoned to the neck and wrist, a washable hat and chemical resistant gloves. Clothing must be laundered after each day's use.

Caution

DO NOT use human flaggers/markers unless they are protected by engineering controls such as enclosed cabs.

PROTECTION OF LIVESTOCK

Low hazard to bees – product may be applied to plants at any time of day.
DO NOT allow stock to graze in any treated areas.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Dangerous to fish and other aquatic organisms.

DO NOT apply if heavy rain or storms are forecast to occur within the immediate areas.

DO NOT apply under weather conditions or from spraying equipment which could be expected to cause spray to drift onto adjacent areas, particularly streams, rivers or other bodies of water.

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

STORAGE AND DISPOSAL

Store in closed original container in a dry, well ventilated place as cool as possible out of direct sunlight.

Single-rinse or shake remainder into spray tank. Do not dispose of undiluted chemicals on site. 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. Do not use empty container for any other purpose.

SAFETY DIRECTIONS

Will irritate the skin. Avoid contact with skin. When opening the container, preparing spray and using the prepared spray, wear cotton overalls buttoned to the neck and wrist, a washable hat 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 (telephone 13 11 26).

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet, which can be obtained from www.crop.bayer.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage arising from failure to follow such directions and instructions.

APVMA Approval No.: 53871/111093

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FOR 24 HOUR SPECIALIST ADVICE
IN EMERGENCY ONLY
PHONE 1800 033 111

GHS STATEMENTS

•May cause an allergic skin reaction.
•Avoid breathing dust. •IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.