

POISON

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

eChem

FIPRONIL 200 SC

INSECTICIDE

ACTIVE CONSTITUENT: 200 g/L FIPRONIL

GROUP 2B INSECTICIDE

For the Control of Various Insect Pests in Asparagus, Bananas, Brassicas, Cotton, Forestry, Ginger, Wine Grapevines, Mushrooms, Pasture, Potatoes, Sorghum, Sugarcane and Swede as specified in the Directions for Use

IMPORTANT: READ THE ATTACHED LEAFLET BEFORE USING THIS PRODUCT

10
Litres


eChem
crop protection

PEEL HERE

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

Harmful if inhaled or swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. When opening the container and preparing product for use wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves and goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist, elbow-length PVC gloves. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Telephone Australia 13 11 26, New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for eChem FIPRONIL 200 SC Insecticide is available from eChem (Australia) Pty Ltd on request.

CONDITIONS OF SALE

eChem (Australia) Pty. Ltd. accepts responsibility for the consistent quality of the product however since the use and application of the product is beyond control, the company accepts no responsibility whatsoever for any loss, damage or other result following the use of the product whether used in accordance with directions or not; other than those mandatorily imposed by statutes,

the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

SAFETY DATA SHEET

Additional information is listed in the Material Safety Data sheet (SDS) available from eChem (Australia) Pty Ltd.

EXCLUSION OF LIABILITY

This product as supplied is of a high grade and suitable for the purpose for which it is expressly intended and must be used in accordance with the directions. The user must monitor the performance of any product as climatic, geographical or biological variables and/or developed resistance may affect the results obtained.

No responsibility is accepted in respect of this product, save for those non-excludable conditions implied by the Trade Practices Act or any State or Federal legislation.

Batch No:

DOM:

APVMA Approval No: 91887/133818

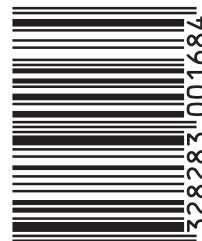
In a Transport Emergency Dial 000 Police or Fire Brigade



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DIRECTIONS FOR USE

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
					Dangerous to bees. Refer to PROTECTION OF LIVESTOCK.
Asparagus	Garden weevil (<i>Phlyctinus callosus</i>)	WA, Vic only	40 mL/100L applying 500L spray solution per hectare	1 day (H)	Day time spraying is effective but superior control may be achieved if spray is applied at night. Repeat applications as required, depending on pest pressure. Controlling weevils in asparagus fern may reduce abundance the following season. DO NOT apply more than 6 applications per season, up to 4 applications to spears and after harvest 2 applications.
Bananas	Banana rust thrips (<i>Chaetanaphothrips signipennis</i>)	Qld, NSW, WA, NT only	Butt application All planting configurations: 150 mL / 100 L water (0.75 mL/ stool) Band application All planting configurations: 40 mL / 100 m ² treated area (See table under 'General Instructions - Application' for calculation of the treated area)	–	Timing Application should ideally be made at least two months prior to bunch emergence to reduce early thrips pressure. Such an application could coincide with an application for banana weevil borer control (see label directions below). Butt application Apply in a coarse spray covering the stem to a height of 30 cm and the soil/trash in a 30 cm radius from the stem base. Apply a total volume of 500 mL solution per stool. Ensure thorough coverage of butt, suckers, trash and exposed soil. Band application Apply in a band along each row. The band width should be such that at least 30 cm of soil/trash is treated on both sides of the butt. Apply with a side delivery boom and offset nozzles directed to spray at least 30 cm of soil on either side of the butt and to a height of 30 cm up the stems. Repeat the application from the opposite side of the row. Half of the spray volume required to treat each row should be applied from each direction of spraying. For double row configurations, treat both rows with each pass, ensuring the ground area between the two rows is also treated. Ensure thorough coverage of butt, suckers, trash and exposed soil. Apply in a minimum water volume of 13 L/100 m ² (trash removed) or 26 L/100 m ² (trash retained). See table under 'General Instructions – Application' for guidance.
	Banana weevil borer (<i>Cosmopolites sordidus</i>)	Qld, NSW, WA, NT only	Butt application All planting configurations 150 mL / 100 L water (0.75 mL/ stool)	–	Apply by butt application as described above for banana rust thrips. Population assessment Lay baits (cut billets of stem base) flat on soil beside stools and cover with leaf material. Check baits after 3 days to assess pest activity. Monitoring should commence in September when pest activity increases and continue until April. Application method Applications should be made in Spring and/or Autumn when weevil numbers reach or exceed acceptable threshold levels. Remove any green trash from area to be treated. Avoid application to trash, which is less than 3 weeks old. This use is subject to a Croplife Resistance Management Strategy. Refer to your eChem representative for details.
Brassicas (head cabbage, cauliflower, broccoli, Brussels sprout, kohlrabi)	Diamondback moth (<i>Plutella xylostella</i>), Cabbage white butterfly (<i>Pieris rapae</i>), Cabbage cluster caterpillar (<i>Crociodolomia pavonana</i>)	All States	250 mL/ha	7 days (H)	Diamondback moth can rapidly become resistant to insecticides. To preserve the effectiveness of eChem FIPRONIL 200 SC, limit the number of applications to no more than 4 per year, preferably applied within an 8 week period. Use spray volume of between 400 and 1000 L/ha according to crop size. Use a non-ionic wetting agent at the rate specified by the manufacturer for use in horticultural crops. Ensure that the rate of wetting agent used results in efficient spray coverage of the leaf surface. This use is subject to a Croplife Resistance Management Strategy. Refer to your eChem representative for details

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
					Dangerous to bees. Refer to PROTECTION OF LIVESTOCK.
Cotton	Cotton thrips (<i>Thrips tabaci</i>) Green mirid (<i>Creontiades dilutus</i>)	Qld, NSW, WA only	62.5 to 125 mL/ha	4 weeks (H)	Apply at the first sign of the pest. eChem FIPRONIL 200 SC will take 3-4 days to reach full effectiveness. Apply spray to achieve thorough coverage of foliage when pest first appears and repeat as required. Use the higher rate in situations of high thrips pressure. Use the higher rate under sustained heavy green mirid pressure. Use higher rate in situations of high green vegetable bug pressure. The product is compatible with early season IPM with the lower rate having less impact on beneficials.
Forestry Plantations including Eucalyptus, Pinus and Corymbia spp.	Australian plague locust (<i>Chortolcetes terminifera</i>) Spur-throated locust (<i>Austracris guttulosa</i>) Migratory locust (<i>Locusta migratoria</i>) Wingless grasshopper (<i>Phaulacridium vittatum</i>) Small plague grasshopper (<i>Austroicetes cruciata</i>)	All States	6.25 to 12.5 mL/ha	–	Apply in plantations situations up to a maximum of two years of age. Apply diluted with water to a minimum of 20 L/ha by air or 50 L/ha by ground rig, directly onto locusts. Ensure thorough coverage of foliage). Residual control of these pests provided by eChem FIPRONIL 200 SC will vary with conditions. Rainfall will significantly reduce residual control. Residual control will also be reduced when applied directly to bare earth. Where inaccessibility prevents direct spraying of locusts apply as a barrier treatment (minimum 25 m wide) ahead of advancing hopper bands. DO NOT retreat for 14 days following application. DO NOT apply eChem FIPRONIL 200 SC to wet foliage. eChem FIPRONIL 200 SC is rainfast after drying on foliage (1 hour). Re-spray only if rain falls before spray is dry on crop. Mortality will increase to a maximum over a period of 3-15 days after spraying. Speed of kill varies with locust species, temperature and age of adults. Fully mature, adult spur-throated locusts may show symptoms of debilitation 4-48 hours after spraying but in cool weather may take up to 14 days to die. Feeding ceases when debilitation symptoms appear. See also General Instructions .
Ginger	Symphylids	Qld only	Pre-plant application 250 mL to 500 mL /ha Dipping 1 mL/200 L + 250 mL/ha pre-planting application	–	Pre-plant application Apply as a spray to soil and incorporate to a depth of 200mm prior to planting. Use the higher rate in heavier soils and/or under high pest pressure. Dipping Dip seed pieces in aqueous solution prior to planting in beds pre-treated with eChem FIPRONIL 200 SC. Dip solution is achieved by mixing 1 mL of eChem FIPRONIL 200 SC in 200 L of water.
Wine grapevines	Fig longicorn (<i>Acalolepta vastator</i>)	All States	100 mL/100 L	–	Apply as a single spray to dormant vines following pruning and prior to budburst. Apply only as a high volume spray using hand held equipment. Thorough coverage of vine trunks and cordons is essential for effective control. Refer to Application Wine grapevines .
Mushrooms	Mushroom flies (<i>Sciardis, Phorids and Cecids</i>)	All States	16 mL/ 300 L bale of peat moss	14 days (H)	Prepare solution by mixing eChem FIPRONIL 200 SC with a small volume of water. Apply mixture to peat moss during preparation of casing. Ensure thorough mixing with peat moss.
Pasture, Sorghum	Australian plague locust (<i>Chortolcetes terminifera</i>), Spur-throated locust (<i>Austracris guttulosa</i>), Migratory locust (<i>Locusta migratoria</i>), Wingless grasshopper (<i>Phaulacridium vittatum</i>), Small plague grasshopper (<i>Austroicetes cruciata</i>)	All States	6.25 mL/ha	14 days (H, G)	Apply diluted with water to a minimum of 20 L/ha by air or 50 L/ha by ground rig, directly onto locusts. Ensure thorough coverage of foliage. Residual control of these pests provided by eChem FIPRONIL 200 SC will vary with conditions. Rainfall will significantly reduce residual control. Residual control. Residual control will also be reduced when applied to bare earth. Where inaccessibility prevents direct spraying of locusts apply as a barrier treatment (minimum 25 m wide) ahead of advancing hopper bands. <i>Continued next page</i>

CROP	PEST	STATE	RATE	WHP	CRITICAL COMMENTS
					Dangerous to bees. Refer to PROTECTION OF LIVESTOCK.
Pasture, Sorghum	Australian plague locust (<i>Chortoicetes terminifera</i>), Spur-throated locust (<i>Austracris guttulosa</i>), Migratory locust (<i>Locusta migratoria</i>), Wingless grasshopper (<i>Phaulacridium vittatum</i>), Small plague grasshopper (<i>Austroicetes cruciata</i>)	All States	6.25 mL/ha	14 days (H, G)	DO NOT retreat for 14 days following application. DO NOT apply eChem FIPRONIL 200 SC to wet foliage. eChem FIPRONIL 200 SC is rainfast after drying on foliage (1 hour). Re-spray only if rain falls before spray is dry on crop. Mortality will increase to a maximum over a period of 3-15 days after spraying. Speed of kill varies with locust species, temperature and age of adults. Fully mature, adult spur-throated locusts may show symptoms of debilitation 4-48 hours after spraying but in cool weather may take up to 14 days to die. Feeding ceases when debilitation symptoms appear. See also General Instructions .
Potatoes, Sweet Potatoes	Wireworm (various), Mole cricket (various)	All States	250 mL/ha	–	Apply as a broadcast spray to the surface of the soil and incorporate to a depth of 15 cm prior to planting.
	Whitefringed weevil (<i>Naupactus leucoloma</i>)		500 mL/ha		
Sugarcane	Sugarcane weevil borer (<i>Rhadoscelus obscurus</i>)	Qld, NSW, WA, NT only	2 to 5.7 mL /100 m row	12 weeks (H, G)	Apply during the Summer months of December to February when the crop has produced the first millable internode of cane. Use hollow cone nozzles as a directed spray to cover the base of the sugarcane stools and up the stalk to a height of 40 cm. Treat both sides of the stools ensuring coverage of all stalks, soil and trash in an area to 10 cm either side of the stools. Use a non-ionic wetting agent at the rate specified by the manufacturer. Ensure that the rate of wetting agent used results in efficient spray coverage of the stalk, soil and trash surface. Apply in a minimum water volume of 250 L/ha (approx. 3.8 L/100 m row). Use the higher rate when pest pressure is heavy.
	Sugarcane wireworm (Various)		Single row plantings: 1.1 mL/ 100 m single row length Double row plantings: 1.8 mL/ 100 m double row length		Apply in the planting furrow over the top of the plant pieces (setts), in sufficient water to ensure coverage of the plant pieces and the surrounding soil.
Swede Turnips	Diamondback moth (<i>Plutella xylostella</i>)	All States	250 mL/ha	7 days (H)	Use according to the CropLife Resistance Management Strategy for diamondback moth control. The use is limited to 4 applications per year, preferably applied within an 8 week period.

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

WITHHOLDING PERIODS:

(H) = HARVEST, (G) = GRAZING

ASPARAGUS:

DO NOT HARVEST FOR 1 DAY AFTER APPLICATION

BANANAS:

NOT REQUIRED WHEN USED AS DIRECTED

BRASSICAS:

DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

COTTON:

DO NOT HARVEST FOR 4 WEEKS AFTER APPLICATION

DO NOT GRAZE OR CUT FOR STOCK FOOD

NOT REQUIRED WHEN USED AS DIRECTED

GINGER:

NOT REQUIRED WHEN USED AS DIRECTED (H)

WINE GRAPEVINES:

DO NOT FEED TRASH OR BY-PRODUCTS RESULTING FROM TREATED GRAPEVINES TO LIVESTOCK (G)

MUSHROOMS:

DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION

PASTURE:

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

POTATOES, SWEET POTATOES:

NOT REQUIRED WHEN USED AS DIRECTED

DO NOT GRAZE OR CUT FOR STOCK FOOD ANY PART OF FAILED CROP (INCLUDING TUBERS)

SORGHUM:

DO NOT HARVEST, GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION

SUGARCANE:

DO NOT HARVEST FOR 12 WEEKS AFTER APPLICATION

DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 12 WEEKS AFTER APPLICATION

SWEDE AND TURNIPS:

DO NOT HARVEST FOR 7 DAYS FOLLOWING APPLICATION

DO NOT ALLOW LIVESTOCK TO GRAZE TREATED CROP

LIVESTOCK WITHHOLDING PERIOD

WITHHOLD STOCK FROM SLAUGHTER FOR 21 DAYS AFTER APPLICATION, WHERE STOCK WERE PRESENT IN CROP OR PASTURE AT TIME OF APPLICATION

GENERAL INSTRUCTIONS

GROUP 2B INSECTICIDE

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management eChem FIPRONIL 200 SC Insecticide is a Group 2B insecticide. Some naturally occurring insect biotypes resistant to eChem FIPRONIL 200 SC and other Group 2B insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if eChem FIPRONIL 200 SC or other Group 2B insecticides are used repeatedly. The effectiveness of eChem FIPRONIL 200 SC on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, eChem (Australia) Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant insects. eChem FIPRONIL 200 SC may be subject to specific resistance management strategies. For further information contact your local supplier, eChem representative or local agricultural department agronomist.

RESIDUES MANAGEMENT IN EXPORT PRODUCE

Crops

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with eChem FIPRONIL 200 SC. If you are growing produce for export, please check with eChem (Australia) Pty Ltd for the latest information on MRLs and import tolerances BEFORE using eChem FIPRONIL 200 SC.

Livestock

Livestock may be exposed to Fipronil 200 residues in the feed by grazing treated pasture and/or sorghum forage and fodder. Observance of the 14 day grazing withholding period permits compliance with Australian MRLs for Fipronil 200 in meat, offal and milk. To meet more stringent export residues requirements, Meat and Livestock Australia recommends Export Slaughter Intervals (ESIs) and Export Grazing Intervals (EGIs) for eChem FIPRONIL 200 SC. When livestock grown for export are grazed on pasture and/or sorghum forage and fodder treated with eChem FIPRONIL 200 SC the user must obtain details of the recommended export intervals from Meat and Livestock Australia and must follow those recommendations.

MIXING

Asparagus, Bananas, Brassicas, Cotton, Ginger, Wine Grapevines, Pasture, Potatoes, Sweet Potatoes, Sorghum, Sugarcane

Slowly add the required amount of product to water in the spray tank while stirring or agitating. Agitate while spraying.

Mushrooms

Add required amount of eChem FIPRONIL 200 SC to a small quantity of water, ensuring thorough mixing.

APPLICATION

Bananas

Ensure thorough coverage of butts, suckers and surrounding trash and exposed soil.

Bananas (Band Spray)

Example calculations of the quantity of eChem FIPRONIL 200 SC and the minimum water volume required to treat a 100 m row length of bananas for various band widths:

Band width to be Treated #	Spray area per 100 m row	Total quantity of eChem FIPRONIL 200 SC required per 100 m row *	Minimum recommended water volume per 100 m (Trash removed) *	Minimum recommended water volume per 100 m (Trash retained) *
1.5 m	150 m ²	60 mL	20 L	40 L
2.0 m	200 m ²	80 mL	27 L	54 L
2.5 m	250 m ²	100 mL	33 L	66 L
3.0 m	300 m ²	120 mL	40 L	80 L

Band width = butt diameter plus 30 cm on either side of the butt

* Rows should be treated from both sides. The quantities stated are the total amounts to be applied, i.e. half of the stated quantity should be applied from each direction of spraying.

Brassicas

Ensure thorough coverage of foliage and heads.

Cotton

For ground application use a prepared spray volume of 35 – 75 L/ha depending on the size of the crop. For Aerial application see 'Aerial application' instructions below.

Ginger

Apply as a spray to soil and incorporate to a depth of 200 mm prior to planting.

Wine Grapevines

eChem FIPRONIL 200 SC should be applied by hand held equipment as a high volume directed spray of approximately 500 mL of solution per vine directed to trunks and cordons during dormant period only.

Mushrooms

Apply mixture to peat moss during preparation of casing, ensuring even mixing in peat moss.

Potatoes, Sweet Potatoes

Apply as a broadcast spray to the surface of the soil and incorporate to a depth of 15 cm prior to planting.

Swede (including Turnip and Radish)

Ensure thorough coverage of foliage.

AERIAL APPLICATION

Use spray techniques that minimise off-target spray drift. DO NOT use rotary atomisers. Use application volumes between 20 L and 50 L/ha. Achieve a droplet density of ~60 droplets/cm² on a flat surface on the target. When spraying large droplets (MEDIUM to COARSE spray droplet size category or greater), increase the application volume to >40 L/ha to ensure sufficient droplets are produced. Aerial application is not recommended for brassica and potato crops.

PRECAUTIONS

Re-entry period

DO NOT allow entry into treated areas until spray has dried. When prior entry is necessary, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing). Clothing must be laundered after each day's use. Human flaggers, if used in aerial spraying operations, must be protected by enclosed cabs.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

DO NOT apply in weather conditions or from spraying equipment, that may cause spray to drift onto nearby susceptible plants, crops, cropping lands or pastures.

PROTECTION OF HONEY BEES AND OTHER INSECT POLLINATORS

Dangerous to bees. DO NOT apply where bees from managed hives are known to be foraging, and crops, weeds or cover crops are in flower at the time of spraying, or are expected to flower within 28 days (7 days for pastures and sorghum).

Before spraying, notify beekeepers to move hives to a safe location with an untreated source of nectar, if there is potential for managed bees to be affected by the spray or spray drift. If an area has been sprayed inadvertently, in which the crop, weeds or cover crop were in flower or subsequently came into flower, notify beekeepers in order to keep managed bees out of the area for at least 28 days (7 days for pastures and sorghum) from the time of spraying. Where the owner of managed hives in the vicinity of a crop to be sprayed is not known, contact your State Department of Primary Industries/Agriculture, citing the registration number, for assistance in contacting the owner.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT spray across open bodies of water. Highly toxic to fish and aquatic organisms. This product will kill susceptible non-target invertebrates, including beneficial species, if they are exposed to drift. DO NOT apply aerially to brassicas and potatoes. A spray drift minimisation strategy should be employed at all times when aerially applying sprays to, or near, sensitive areas. The strategy envisaged is exemplified by the cotton industry's Best Management Practice Manual

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.

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imposed by statutes, the liability is limited to the replacement of the goods and is conditional upon a claim made in writing and, where necessary, a sufficient part of the goods being returned for proper examination by the company within thirty days of sale.

