

# POISON

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

# FIPRONIL

**800 WG** INSECTICIDE

**ACTIVE CONSTITUENT:**  
800 g/kg FIPRONIL

**GROUP 2B** INSECTICIDE

For the control of various insect pests in bananas, brassicas, cotton, wine grapevines, mushrooms, pasture, potatoes, sorghum and sugarcane as specified in the Directions for Use Table

IMPORTANT: READ THIS LEAFLET BEFORE USE

**RELYON**<sup>®</sup>



**DIRECTIONS FOR USE**

CROP	PEST	STATE	RATE	WHP H = Harvest G = Grazing
Bananas	Banana rust thrips ( <i>Chaetanaphothrips signipennis</i> )	Qld, NSW, WA, NT only	<p><u>Butt application</u> All planting configurations: 37.5 g/100 L water (0.19 g/stool)</p> <p><u>Band application</u> All planting configurations: 10 g/100 m<sup>2</sup> treated area</p> <p>(See table under General Instructions – Application for calculation of the treated area)</p>	-
	Banana weevil borer ( <i>Cosmopolites sordidus</i> )	Qld, NSW, WA, NT only	<p><u>Butt application</u> All planting configuration: 37.5 g/100 L water (0.19 g/stool)</p>	

CRITICAL COMMENTS
Dangerous to bees. Refer to PROTECTION OF LIVESTOCK
<p><b>Timing</b> 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).</p> <p><b>Butt application</b> 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.</p> <p><b>Band application</b> Apply in a band along each row. The bandwidth 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<sup>2</sup> (trash removed) or 26 L/100 m<sup>2</sup> (trash retained). See table under General instructions – Application for guidance.</p>
<p>Apply by butt application as described above for banana rust thrips.</p> <p><b>Population assessment</b> 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.</p> <p><b>Application method</b> 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 an Avcare Resistance Management Strategy. Refer to your Nutrien Ag Solutions representative for details.</p>

CROP	PEST	STATE	RATE	WHP H = Harvest G = Grazing
Brassicac (head cabbage cauliflower, broccoli, Brussels sprouts, (kohirabi)	Diamondback moth ( <i>Plutella xylostella</i> ) cabbage white butterfly ( <i>Pieris rapae</i> ). Cabbage cluster caterpillar ( <i>Crocidolomia pavonana</i> )	All states	60 g/ha	7 days (H)
Cotton	Cotton thrips ( <i>Thrips tabaci</i> )	Qld, NSW, WA only	15.5 – 30 g/ha	4 weeks (H)
	Green mired ( <i>Creontiades dilutus</i> )			
Mushrooms	Mushroom flies (Sciarids, Phorids and Cecids)	All states	4g/300L bale of peatmoss	14 days (H)
Potatoes	Wireworm (various), mole cricket (various)	All states	62.5 g/ha	-
	Whitefringed weevil ( <i>Naupactus leucoloma</i> )	All states	125 g/ha	
Wine grapevines	Fig longicorn ( <i>Acalolepta vastator</i> )	All states	25 g/ha	-

CRITICAL COMMENTS
Dangerous to bees. Refer to PROTECTION OF LIVESTOCK
Diamondback moth can rapidly become resistant to insecticides. To preserve the effectiveness of FIPRONIL 800 WG, 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 an Avcare Resistance Management Strategy. Refer to your Nutrien Ag Solutions representative for details.
Apply at the first sign of the pest. FIPRONIL will take 3-4 days to reach full effectiveness. Use the higher rate in situations of high thrips pressure.
Apply spray to achieve thorough coverage of foliage when pest first appears and repeat as required. Use the higher rate under sustained heavy green mired pressure. The product is compatible with early season IPM with the lower rate having less impact on beneficials.
Prepare solution by mixing FIPRONIL 800 WG with a small volume of water. Apply mixture to peatmoss during preparation of casing. Ensure thorough mixing with peatmoss.
Apply as a broadcast spray to the surface of the soil and incorporate to a depth of 15 cm prior to planting.
Apply as a single spray to dormant vines following pruning and prior to budburst. Apply only as high volume spray using hand held equipment. Thorough coverage of vine trunks and cordons is essential for effective control. Refer to Application Wine Grapevines.

CROP	PEST	STATE	RATE	WHP H = Harvest G = Grazing
Pasture, sorghum	Australian plague locust ( <i>Chortoicetes terminifera</i> ), spurthroated locust ( <i>Austracns guttulosa</i> ) migratory locust ( <i>Locusta mifratoria</i> ), wingless grasshopper ( <i>Phaulacridium vittatum</i> )	All States	1.5 g/ha	14 days (H G)
Sugarcane	Sugarcane Weevil Borer ( <i>Rhabdoscelus obscurus</i> )	NSW, Qld, WA, NT only	0.5 – 1.4 g /100 m row	12 weeks (H, G)
	Sugarcane wireworm (various)		<u>Single row plantings:</u> 0.3 g /100 m single row length  <u>Double row plantings:</u> 0.5 g/ 100 m double row length	-

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

CRITICAL COMMENTS
Dangerous to bees. Refer to PROTECTION OF LIVESTOCK
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 pest provided by FIPRONIL 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 re-treat for 14 days following application. DO NOT apply FIPRONIL to wet foliage. FIPRONIL 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, adultspur-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
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.
Apply in the planting furrow over the top of plant pieces (setts) in sufficient water to ensure coverage of the plant pieces and the surrounding soil.

#### WITHHOLDING PERIODS:

(H) = HARVEST, (G) = GRAZING

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.
WINE GRAPES:	NOT REQUIRED WHEN USED AS DIRECTED (H) DO NOT FEED TRASH OR BY-PRODUCTS RESULTING FROM TREATED GRAPEVINES TO LIVESTOCK
MUSHROOMS:	DO NOT HARVEST FOR 14 DAYS AFTER APPLICATION
PASTURE:	DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER APPLICATION
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

#### 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

#### RESIDUES MANAGEMENT IN EXPORT PRODUCE

##### Crops

Growers should note that MRLs or import tolerances do not exist in all markets for produce treated with FIPRONIL 800 WG Insecticide. If you are growing produce for export, please check with Nutrien Ag Solutions Limited for the latest information on MRLs and import tolerances BEFORE using FIPRONIL 800 WG Insecticide.

##### Livestock

Livestock may be exposed to fipronil 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 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 FIPRONIL 800 WG. When livestock grown for export are grazed on pasture and/or sorghum forage and fodder treated with FIPRONIL 800 WG the user must obtain details of the recommended export intervals from Meat and Livestock Australia and must follow those recommendations.

#### MIXING

**Bananas, Brassicas, Cotton, Wine Grapevines, Potatoes, Pastures, 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 FIPRONIL 800 WG 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)

Calculation of the quantity of FIPRONIL and minimum water volume required to treat a 100 m row length of bananas for various band widths.

Band width to be treated <sup>#</sup>	Spray area per 100 m row	Total quantity of FIPRONIL 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 <sup>2</sup>	15 g	20 L	40 L
2.0 m	200 m <sup>2</sup>	20 g	27 L	54 L
2.5 m	250 m <sup>2</sup>	25 g	33 L	66 L
3.0 m	300 m <sup>2</sup>	30 g	40 L	80 L

<sup>#</sup>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.

### **Wine Grapevines**

FIPRONIL should be applied by hand held equipment as a high volume directed spray of approximately 500 mL solution per vine.

### **Mushrooms**

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

### **AERIAL APPLICATION**

Use spray techniques that minimize 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/cm<sup>2</sup> on a flat surface on the target. When spraying large droplets (>250 µm), increase the application volume to > 40 L/ha to ensure sufficient droplets are produced. Aerial application is not recommended for brassica and potato crops.

### **INSECTICIDE RESISTANCE WARNING**

#### **GROUP 2B INSECTICIDE**

For insecticide resistance management FIPRONIL 800 WG is a Group 2B insecticide. Some naturally occurring insect biotypes resistant to FIPRONIL 800 WG 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 FIPRONIL 800 WG or other Group 2B insecticides are used repeatedly. The effectiveness of FIPRONIL 800 WG on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use. Nutrien Ag Solutions Limited accepts no liability for any losses that may result from the failure of this product to control resistant insects. FIPRONIL 800 WG may be subject to specific resistance management strategies. For further information contact your local supplier, Nutrien Ag Solutions Limited representative or local agricultural department agronomist.

### **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) and chemical resistant gloves. 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 non-target plants/crops, cropping lands or pastures.

### **PROTECTION OF LIVESTOCK**

Dangerous to bees. DO NOT apply where bees from managed hives are 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 accidentally 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.

### **PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Highly toxic to fish and aquatic organisms. DO NOT contaminate streams, rivers or waterways with the chemical or used containers. DO NOT spray across open bodies of water.

This product will kill susceptible non-target invertebrates, including beneficial species, if they exposed to drift. DO NOT apply aerially to brassicas and potatoes. A spray drift minimization 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 dry, 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.

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.

**SAFETY DIRECTIONS**

Poisonous if absorbed by skin contact, inhaled or swallowed. Will irritate the eyes and skin. DO NOT inhale dust. Avoid contact with eyes and skin. When opening the container, preparing product for use and using the prepared spray, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) and elbow-length PVC gloves and face shield or goggles. If product in eyes wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use wash gloves, face shield or goggles 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**

For further information, refer to the Safety Data Sheet which is available from the supplier.

**CONDITIONS OF SALE**

The use of this product is beyond the control of Nutrien Ag Solutions Limited. Any provisions or rights under the Australian Consumer Law which cannot be excluded by law are not intended to be excluded by these conditions of sale. Subject to the foregoing, all warranties, conditions, rights and remedies expressed or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application of this product are excluded. Nutrien Ag Solutions Limited does not accept any liability (including consequential loss and/or negligence) for any loss or damage connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

# RELYON®

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