



# POISON

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

F.S.A.

# IMIDACLOPRID 600 FLOWABLE SEED TREATMENT INSECTICIDE

ACTIVE CONSTITUENT: 600 g/L IMIDACLOPRID

GROUP **4A** INSECTICIDE

For the control of various insect pests in a range of crops and the protection of spread of barley yellow dwarf virus in cereal crops, as specified in the Directions for Use

**IMPORTANT: READ THE ATTACHED BOOKLET BEFORE USE**



## DIRECTIONS FOR USE

CROP	PEST	RATE	CRITICAL COMMENTS
<b>Cotton</b>	Thrips	580mL, 875mL or 1.17 L/100kg seed	Thrips damage is dependent upon thrips infesting cotton seedlings and the subsequent growth rate of the plants. Choose a higher rate if thrips pressure is expected (e.g. winter cereal and weeds supporting thrips) and/or cotton seedlings are expected to experience slow growth (e.g. cool weather from early planting or sown in shorter season districts). The mid-rate is considered a general rate for normal conditions.
	Aphids	875mL or 1.17 L/100kg seed	When applied for thrips control, these rates will also control early season aphids.
	Brown flea beetle	580mL, 875mL or 1.17 L/100kg seed	When applied for thrips control, these rates will also reduce damage to cotyledons caused by brown flea beetle.
	Wireworms	875mL or 1.17 L/100kg seed	Use the higher rate for increased length of control.
<b>Maize, Sorghum, Sunflower, Sweetcorn</b>	Sugarcane wireworm ( <i>Agrypnus variabilis</i> ), Eastern false wireworm ( <i>Pterohelaeus darlingensis</i> ), Striate false wireworm ( <i>Pterohelaeus alternatus</i> ), Southern false wireworm ( <i>Gonocephalum macleayi</i> ), Black field earwig ( <i>Nalva lividipes</i> ), Wingless coackroach ( <i>Cosmozosteria</i> spp., <i>Calolampra elegans</i> , <i>C. solidata</i> ) Filed cricket ( <i>Teleogryllus commodus</i> ), Black sunflower scarab ( <i>Pseudoheteonyx basicollis</i> )	Maize: 1.4mL/1000 seeds  Sorghum, sunflower, sweet corn: 430mL/100kg of seed	Apply only to high quality seed. Ensure thorough coverage of seed.
<b>Canola</b>	Aphids, Blue Oat mite, red legged earth mite	400 mL/ 100kg of seed	F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide will protect canola seedlings from early season aphid damage.

CROP	PEST	RATE	CRITICAL COMMENTS
Forage and seed pasture, e.g. grasses such as ryegrass, fescue and phalaris; clovers such as subterranean, white, and strawberry; medics; lucerne	Aphids, Blue Oat mite, red legged earth mite	400 mL/100kg of seed	F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide will protect emerging seedlings for 3-4 weeks after sowing. Crops must be monitored in the first 4 weeks of emergence to ensure product performance. For autumn F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide sowing: After a pasture phase sow F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide treated seed following a well timed spring spray (prior to the development of diapause eggs) of omethoate insecticide. After a cropping phase a spring spray is not usually required, however if monitoring in spring finds moderate mite populations, a spring spray should be applied.
Forage brassicas (kale, turnips, rape and Swedes)		300 mL/100kg seed	For spring sowing: After a pasture phase apply a spray of omethoate prior to sowing F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide treated seed. F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide does not affect the viability of Rhizobia when F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide is mixed with inoculant and seed is sown immediately into moist soil.
Lupins			
Cereals	Feeding damage caused by wheat aphid and corn aphid	120 or 240 mL/100kg of seed	Use the higher rate for increased length of control and in areas of high risk.
	Spread of barley yellow dwarf virus		In high risk areas with over 500mm of rain or in moderate risk areas with over 400mm of rain in seasons following summer rains, a synthetic pyrethroid top-up spray should be applied 7-8 weeks after sowing.

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

**WITHHOLDING PERIOD:**

**Harvest:**

**Cotton and food producing crops: NOT REQUIRED WHEN USED AS DIRECTED**

**Grazing:**

**Maize, sorghum, or sweet corn plants growing from treated seed:**

**DO NOT GRAZE OR CUT FOR STOCK FOOD WITHIN 4 WEEKS OF SOWING.**

**Pasture, canola or forage brassica plants grown from treated seed:**

**DO NOT GRAZE OR CUT FOR STOCKFEED FOR SIX WEEKS OF SOWING.**

**Cereal or lupins plants grown from treated seed:**

**DO NOT GRAZE OR CUT FOR STOCK FOOD WITHIN NINE WEEKS OF SOWING.**

# GENERAL INSTRUCTIONS

## Cotton

### Mixing and seed treatment

Prior to pouring or pumping F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide from the container, either shake the container vigorously or operate pump by-pass to ensure thorough mixing of the contents. Flowable formulations will settle over time. Add most of the water into the mixing vat, followed by flowable fungicides (e.g. quintozene), coating agents (e.g. Peridam, Nancret) and F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide and stir until homogeneous. Then add the emulsifiable liquid fungicide (e.g. Apron 200SL) slowly whilst stirring. Calibrate commercial seed dressing equipment to ensure the seed throughput is mixed with the correct dose of slurry seed dressing. Ensure the seed dressing mixture is applied to the maximum number of seeds when initially applied to the seed. Retain seed in mixing chamber until coverage on seed is good. Store treated seed under cover in cool, dry conditions. Do not treat seed with poor viability. Do not store treated seed near foodstuffs or where likely to prove hazardous to humans or animals.

## Forage and seed pasture, canola, forage brassicas, lupins, summer crops

### Mixing and seed treatment

Prior to pouring, shake container vigorously, then add the required quantity of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide to sufficient water to give even coverage of the seed to be treated. Place seed in mixing equipment and rotate. Mix F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide with sufficient water to give even coverage of seed and spray onto seed. For small seeds, apply a total volume of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide plus water of 1.5 L/100kg seed. For large seeds, apply a total volume of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide plus water of 500 mL/100kg seed. Continue rotation until all liquid is distributed on seed. Store treated seed under cover in cool, dry conditions. Do not treat seed with poor viability. Do not store treated seed near foodstuffs or where likely to prove hazardous to humans or animals. Do not carry over maize, sorghum, sunflower or sweet corn seed from one season to the next season. The insecticidal activity of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide on the seed is maintained for a minimum of two seasons.

Flow rate: F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide treated seed may slow flow rate of seed. Check flow rate of seed through sowing machinery before sowing to ensure the desired seeding rate is achieved.

## Cereal crops

### Mixing and seed treatment

Prior to pouring, shake container vigorously, then add the required quantity of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide to sufficient water to give even coverage of the cereal seed to be treated. The quantity of water used for mixing will vary depending on type of equipment and quantity of seed. Use a minimum of 400 mL of mixture (product + water) with each 100 kg of seed. Whatever dilution is used it is essential that 120 mL or (240 mL) of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide is applied/100 kg seed. The mixture should be gently stirred regularly.

## Seed quality

F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide seed treatment should not be used on seed with more than 12% moisture content, or on sprung, sprouted, damaged or severely pinched seed of poor viability. If in doubt, have a germination test carried out on the seed before treatment to ensure that it is of acceptable standard. Treating with F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide as directed may raise the moisture level of the seed by up to 0.6%, depending on conditions at treatment. The use of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide mixed with the water at recommended rates will have no effect on the storage life of treated sound seed.

## Compatibility

F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide is compatible with Baytan C Flowable Seed Dressing and Raxil C Flowable Seed Dressing for use on cereal seeds. Do not use more than 600 mL of total mixture /100 kg seed (i.e. F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide plus Baytan or Raxil plus water). F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide may be applied with Jockey Systemic Seed Fungicide or with Semevin P Seed Dressing Insecticide.

## Storage of treated seed

Do not store treated seed near foodstuffs or where likely to prove hazardous to humans or animals. If the seed is not used immediately after treatment it should be stored in a dry, well ventilated place. Although F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide has no effect on the viability of treated seed, subsequent germination can be adversely affected by poor storage conditions such as high moisture combined with high temperatures. No liability can therefore be accepted for the performance of stored treated seed.

## INSECTICIDE RESISTANCE WARNING

<b>GROUP</b>	<b>4A</b>	<b>INSECTICIDE</b>
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For insecticide resistance management F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide is a group 4A insecticide. Some naturally occurring insect biotypes resistant to F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide and other group 4A insecticides are used repeatedly. The effectiveness of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Four Seasons Agribusiness Pty Ltd accepts no liability for any losses that may result from the failure of F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide to control resistant insects. F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide may be subject to specific resistance management strategies. For further information contact your supplier, Four Seasons Agribusiness Pty Ltd representative or local agricultural department agronomist.

## PRECAUTIONS

When treated seed is stored it should be kept apart from other grain and the bags or other containers should be clearly marked to indicate the contents have been treated with this product. Do NOT allow seed treated with this product to contaminate seed intended for human consumption. Do NOT use treated seed for human consumption. Bags which have held treated seed are not to be used for any other purpose.

## PROTECTION OF LIVESTOCK

Seed treated with this product must not be used for animal consumption or poultry feed or mixed with animal feed. Do NOT allow seed treated with this product to contaminate seed intended for animal consumption.

## PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Do NOT contaminate ponds, waterways and drains with this product, used containers or bags which have held treated seed. Do NOT feed treated seed or otherwise expose to wild or domestic birds. Any spillages of treated seed, however minor, must be cleaned up immediately, preferable by recovery and re-use. If disposal is required, ensure treated seeds as thoroughly buried and not accessible to birds and other wildlife.

## STORAGE AND DISPOSAL

Keep out of reach of children. Store in the closed, original container in a cool, well ventilated area out of direct sunlight. 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. Dispose of rinsate or any undiluted chemical according to state/territory legislative requirements. 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 of product. The method of disposal of the container depends on the container type. Read the 'Storage and disposal' instructions on the label that is attached to the container. 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 or any undiluted chemical according to state legislative requirements. 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.

### **Storage of Treated Seed:**

Do not store treated seed near foodstuffs or where likely to prove hazardous to humans or animals. If the seed is not used immediately after treatment it should be stored in a dry, well ventilated place. Although F.S.A. Imidacloprid 600 Flowable Seed Treatment Insecticide has no effect on the viability of treated seed, subsequent germination can be adversely affected by poor storage conditions such as high moisture combined with high temperatures. No liability can therefore be accepted for the performance of stored treated seed.

### **SAFETY DIRECTIONS**

Harmful if swallowed. Will irritate the eyes and skin. Repeated exposure may cause allergic disorders. Avoid contact with the eyes and skin. When opening the container and using the product, wear elbow length chemical resistant gloves. Wash hands after use. After each day's use wash gloves.

### **FIRST AID**

If poisoning occurs, contact a Doctor or Poisons Information Centre Phone Australia 13 11 26.

### **SAFETY DATA SHEET**

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

### **CONDITIONS OF SALE**

The sale, supply, storage, use and application of this product is beyond the control of the manufacturer, and, subject to this provision, all warranties, conditions, rights and remedies express or implied under common law, statute or otherwise, in relation to the sale, supply, storage, use or application are excluded. Four Seasons Agribusiness Pty Limited and its associated entities shall not accept any liability whatsoever (including consequential loss) or however arising (including negligence) for any damage, injury or death connected with the sale, supply, storage, use or application of this product except for liability which cannot be excluded by statute.

**IN AN EMERGENCY  
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