

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

QA

Imidacloprid 600 FS

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.

APVMA Approval No.: 84841/149904

FS

Formulation Type
Flowable Concentrate
for Seed Treatment

**BE PROUDLY
AUSTRALIAN**

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 **QUANTUM
AGROSCIENCES**

DIRECTIONS FOR USE

CROP	PEST	RATE
Cotton	Thrips	580 mL, 875 mL or 1.17 L/100 kg seed
	Aphids	875 mL or 1.17 L/100 kg seed
	Brown flea beetle	580 mL, 875 mL or 1.17 L/100 kg seed
	Wireworms	875 mL or 1.17 L/100 kg seed
Maize, Sorghum, Sunflower, Sweetcorn	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 cockroach (<i>Cosmozosteria</i> spp., <i>Calolampra elegans</i> , <i>C. solidata</i>), Field cricket (<i>Teleogryllus commodus</i>), Black sunflower scarab (<i>Pseudoheteonyx basicollis</i>)	Maize: 1.4 mL/1000 seeds Sorghum, sunflower, sweet corn: 430 mL/100 kg seed
Canola	Aphids, Blue Oat mite, Red legged earth mite	400 mL/100 kg of seed
Forage and seed pasture e.g. grasses such as ryegrass, fescue and phalaris; clovers such as subterranean, white, and strawberry; medic; lucerne		
Forage brassicas (kale, turnips, rape and Swedes)		
Lupins		300 mL/100 kg seed
Cereals	Feeding damage caused by wheat aphid and corn aphid	120 or 240 mL/100 kg seed
	Spread of barley yellow dwarf virus	

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

CRITICAL COMMENTS
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.
When applied for thrips control, these rates will also control early season aphids.
When applied for thrips control, these rates will also reduce damage to cotyledons caused by brown flea beetle.
Use the higher rate for increased length of control.
Apply only to high quality seed. Ensure thorough coverage of seed.
QA Imidacloprid 600 FS Insecticide will protect canola seedlings from early season aphid damage.
QA Imidacloprid 600 FS 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 sowing: After a pasture phase sow QA Imidacloprid 600 FS Insecticide treated seed following a well-timed spring spray (prior to the development of diapause eggs) of Le-Mat 290SL 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. For spring sowing: After a pasture phase apply a spray of omethoate prior to sowing QA Imidacloprid 600 FS Insecticide treated seed.
QA Imidacloprid 600 FS Insecticide does not affect the viability of Rhizobia when QA Imidacloprid 600 FS Insecticide is mixed with inoculant and seed is sown immediately into moist soil.
Use the higher rate for increased length of control and in areas of high risk.
In high risk areas with over 500 mm of rain or in moderate risk areas with over 400 mm of rain in seasons following summer rains, a synthetic pyrethroid top-up spray should be applied 7 - 8 weeks after sowing.

WITHHOLDING PERIODS

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 QA Imidacloprid 600 FS 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 QA Imidacloprid 600 FS 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 QA Imidacloprid 600 FS Insecticide to sufficient water to give even coverage of the seed to be treated. Place seed in mixing equipment and rotate. Mix QA Imidacloprid 600 FS Insecticide with sufficient water to give even coverage of seed and spray onto seed. For small seeds, apply a total volume of QA Imidacloprid 600 FS Insecticide plus water of 1.5 L/100kg seed. For large seeds, apply a total volume of QA Imidacloprid 600 FS Insecticide plus water of 500 mL/100 kg 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 QA Imidacloprid 600 FS Insecticide on the seed is maintained for a minimum of two seasons.

Flow rate: QA Imidacloprid 600 FS 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 QA Imidacloprid 600 FS 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 QA Imidacloprid 600 FS Insecticide is applied/100 kg seed. The mixture should be gently stirred regularly.

Seed Quality: QA Imidacloprid 600 FS Insecticide 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 QA Imidacloprid 600 FS Insecticide as directed may raise the moisture level of the seed by up to 0.6%, depending on conditions at treatment. The use of QA Imidacloprid 600 FS Insecticide mixed with the water at recommended rates will have no effect on the storage life of treated sound seed.

COMPATIBILITY

QA Imidacloprid 600 FS 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. QA Imidacloprid 600 FS Insecticide plus Baytan or Raxil plus water). QA Imidacloprid 600 FS 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 QA Imidacloprid 600 FS 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

For insecticide resistance management QA Imidacloprid 600 FS Insecticide is a group **GROUP 4A INSECTICIDE** 4A insecticide. Some naturally occurring insect biotypes resistant to QA Imidacloprid 600 FS 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 QA Imidacloprid 600 FS Insecticide and other group 4A insecticides are used repeatedly. The effectiveness of QA Imidacloprid 600 FS Insecticide on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Quantum Agrosociences Holdings Pty Ltd accepts no liability for any losses that may result from the failure of QA Imidacloprid 600 FS Insecticide to control resistant insects. QA Imidacloprid 600 FS Insecticide may be subject to specific resistance management strategies. For further information contact your supplier, Quantum Agrosociences Holdings 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 are thoroughly buried and not accessible to birds and other wildlife.

STORAGE AND DISPOSAL

5 L, 10 L, 20 L only: 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 for appropriate disposal 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.

Mini Bulk Returnable Container (110 L): Store the original sealed 110L Mini Bulk in a cool well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT tamper with the MicroMatic valve or the security seal. DO NOT contaminate the 110L Mini Bulk with water or any foreign matter. After each use of the product, please ensure that the MicroMatic coupler, delivery system and hoses are disconnected, triple rinsed with clean water and drained accordingly. When the contents of the 110L Mini Bulk have been used, please return the empty 110L Mini Bulk to the point of purchase. The 110L Mini Bulk remains the property of Quantum Agrosciences Holdings Pty Ltd .

Refillable containers (200 L & 1000 L): Store in the closed, original container in a cool well-ventilated area. Do not store for prolonged periods in direct sunlight. Empty contents fully into application equipment. Close all valves and return to point of supply for refill or storage.

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

Additional information is listed in the Safety Data Sheet (SDS) which is available from the supplier.

CONDITIONS OF SALE: Quantum Agrosciences Holdings Pty Ltd shall not be liable for any loss injury damage or death whether consequential or otherwise whatsoever or howsoever arising whether through negligence or otherwise in connection with the sale supply use or application of this product. The supply of this product is on the express condition that the purchaser does not rely on Quantum Agrosciences Holdings Pty Ltd's skill or judgement in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of Quantum Agrosciences Holdings Pty Ltd has any authority to add to or alter these conditions.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: Harmful if swallowed. **Very toxic to aquatic life.** Wash all exposed external body areas thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Collect spillage.



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