

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

TITAN

PATROL 350 FS

SEED TREATMENT

ACTIVE CONSTITUENT: 350g/L THIAMETHOXAM

GROUP **4A** INSECTICIDE



For treatment of Canola and Cereal crops and for the control of Aphids and Stored Grain Pests
in stored cereal planting seed as per the Directions For Use table.

APVMA Approval No.: 95820/147289

Pack Size: 1L-1000L



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FS	Formulation Type Flowable Concentrate for Seed Treatment
	IN A TRANSPORT EMERGENCY • DIAL 000 • POLICE OR FIRE BRIGADE
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Thiamethoxam) PG III Hazchem • 3Z	

DIRECTIONS FOR USE

Restraint: DO NOT use treated seed for animal or human consumption.

CROP	PEST	RATE	CRITICAL COMMENTS
Cereals including Barley, Cereal Rye, Triticale, Wheat	Control of aphids including Wheat/Oat Aphid (<i>Rhopalosiphum padi</i>), Corn Aphid (<i>Rhopalosiphum maidis</i>), Green Peach Aphid (<i>Myzus persicae</i>) [^] , Cowpea Aphid (<i>Aphis craccivora</i>), Russian Wheat Aphid (<i>Diuraphis noxia</i>) Reduced spread of Barley Yellow Dwarf Virus (BYDV), Cereal Yellow Dwarf Virus (CYDV) Control of Wireworm including False Wireworm (<i>Pterohelaeus</i> spp.), True Wireworm (<i>Agrypnus variabilis</i>)	100 to 200mL/ 100kg seed	TITAN Patrol 350 FS Seed Treatment will protect cereal seedlings from early season aphid feeding damage and damage caused by Wireworm. Use the higher rate in areas where higher pest pressure is expected or a longer period of control is required. Protection of crops by early Aphid infestation will reduce the spread of BYDV and CYDV. Crops should be monitored and sprayed as needed should there be later infestations by aphids. [^] Note: This use is subject to a CropLife Resistance Management Strategy. Refer to www.croplife.org.au for more information.
Barley, Cereal Rye, Triticale, Wheat	Control of adult insects and progeny in storage Lesser Grain Borer (<i>Rhyzopertha dominica</i>), Rice Weevil (<i>Sitophilus oryzae</i>), Saw-toothed Grain Beetle (<i>Oryzaephilus surinamensis</i>), Flat Grain Beetle (<i>Cryptolestes ferrugineus</i>) Control of progeny of grain insects in storage Rust Red Flour Beetle (<i>Tribolium castaneum</i>) Suppression of adult grain insects in storage Rust Red Flour Beetle (<i>Tribolium castaneum</i>)	30mL/100kg seed	TITAN Patrol 350 FS Seed Treatment will provide protection from the listed stored grain pests for up to 9 months. TITAN Patrol 350 FS Seed Treatment should be used as part of an integrated silo management plan. Grain intended for treatment should be of high quality and free of infestation. If adult Rust Red Flour Beetles were to be detected after cleaning, the bulk should be disinfested by an approved fumigation or other registered treatment before application of TITAN Patrol 350 FS Seed Treatment.
Canola	Control of aphids Green Peach (<i>Myzus persicae</i>) [^] , Grey Cabbage (<i>Brevicoryne brassicae</i>)	300 to 600mL/ 100kg seed	TITAN Patrol 350 FS Seed Treatment will protect Canola seedlings from early season Aphid feeding damage. Use the higher rate in areas where higher pest pressure is expected or a longer period of control is required. [^] Note: This use is subject to a CropLife Resistance Management Strategy. Refer to www.croplife.org.au for more information.

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

WITHHOLDING PERIODS

Cereals

Harvest: NOT REQUIRED WHEN USED AS DIRECTED

Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 8 WEEKS AFTER PLANTING

Canola

Harvest: NOT REQUIRED WHEN USED AS DIRECTED

Grazing: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 6 WEEKS AFTER PLANTING

GENERAL INSTRUCTIONS

APPLICATION

For best results, treat only seed of high germination and vigour. Treatment of highly mechanically scarred or damaged seed or seed known to be of low vigour and poor quality may result in reduced germination and/or reduction of seed and seedling vigour.

Due to seed quality, crop or variety sensitivity, and seed storage conditions beyond the control of TITAN AG Pty Ltd, no claims are made to guarantee the germination of seed or propagating material for all crop seed when treated with TITAN Patrol 350 FS Seed Treatment.

Treatment in small lots by the farmer May be applied by shaking with seed in a tin, enclosed drum, plastic bag or cement mixer.

1. Premix TITAN Patrol 350 FS Seed Treatment with water to a total volume of not less than 5mL nor more than 10mL/kg seed for cereals and not less than 8mL nor more than 15mL/kg seed for Canola and Pulse crops.

2. Apply solution to seed and vigorously mix for 1 to 2 minutes. Treatment of large seed lots by commercial seed treatment equipment For large scale seed treatment, the product should be applied diluted with water in specialised seed treatment equipment. As for all such seed treatments, a good flow and metering system for the initial prepared solution is important. Depending on the type of seed treatment equipment, it may be necessary to increase the recommended amount of water slightly in order to ensure an optimal flow of the solution and an even treatment of seed.

Prepare the solution as follows:

1. Fill the solution tank with the required volume of water and mix with the appropriate volume of TITAN Patrol 350 FS Seed Treatment. Total volumes of not less than 500mL nor more than 1L water/100kg seed for Cereals and not less than 800mL nor more than 1.5L water/100kg seed for Canola and Pulse crops are recommended where TITAN Patrol 350 FS Seed Treatment is applied alone. If additional seed treatments are applied in combination with TITAN Patrol 350 FS Seed Treatment, a higher total application volume may be required to ensure even coverage of seed.

2. Switch on the stirring system and stir.

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management, TITAN Patrol 350 FS Seed Treatment is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to TITAN Patrol 350 FS Seed Treatment 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 TITAN Patrol 350 FS Seed Treatment or other Group 4A insecticides are used repeatedly. The effectiveness of TITAN Patrol 350 FS Seed Treatment on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from failure of TITAN Patrol 350 FS Seed Treatment to control resistant insects. TITAN Patrol 350 FS Seed Treatment may be subject to specific resistance management strategies.

To help prevent the development of resistance to TITAN Patrol 350 FS Seed Treatment, use TITAN Patrol 350 FS Seed Treatment in accordance with the current CropLife Resistance Management Strategy.

To avoid or delay resistance, insecticides from the same mode of action group should not be used to treat successive generations of the target pest. After using TITAN Patrol 350 FS Seed Treatment, foliar applications of products containing Group 4A insecticides should not be used to treat successive generations of the target pest.

For further information contact your local TITAN AG representative, CropLife Australia, farm chemical supplier, local Department of Agriculture or Primary Industries or consultant.

Aphid Resistance Management: When Canola, Cereal or Pulse crop seed has been treated with TITAN Patrol 350 FS Seed Treatment, the first foliar insecticide spray must be from a different insecticide group (ie not Group 4A).

PRECAUTIONS

DO NOT allow treated seed to contaminate grain or other seed intended for animal or human consumption. DO NOT feed treated seed, or otherwise expose, to wild or domestic birds.

Protection of Birds: Treated seed may be harmful to seed eating birds, and should be properly sown and completely covered by soil. Excess seed is not to be left in areas accessible to birds. Any spillage of treated seed which occurs either during the seed treatment process or in field operations must be cleaned up immediately, preferably by recovery and re-use. 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. Bags which have held treated seed should not be used for any other purpose.

PROTECTION OF LIVESTOCK

DO NOT feed treated seeds to animals, including poultry.

PROTECTION OF HONEY BEES AND POLLINATORS

Toxic to bees and other pollinators. Care must be taken to avoid drift onto adjacent areas.

DO NOT plant treated seeds in case of strong wind. When opening the seed bags or during filling or emptying of the drilling machine, work up-wind to avoid dust exposure. When using a pneumatic vacuum drilling machine, the machine airflow with dust from treated seeds should be directed to the surface or into the soil, eg using deflectors. The use as a seed treatment will not damage bees and other pollinators if label recommendations are followed.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the product, used containers or bags which have held treated seeds.

STORAGE AND DISPOSAL

Store in 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 500mm 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.

For Refillable Containers: Empty contents fully into application equipment. Close all valves and return to point of storage for refill or storage.

SAFETY DIRECTIONS

Will irritate the skin. Avoid contact with skin. When opening the container and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing) 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. Phone Australia 131126; New Zealand 0800 764 766.

SAFETY DATA SHEET

Additional information is listed in the safety data sheet (SDS). A safety data sheet for TITAN Patrol 350 FS Seed Treatment is available from TITAN AG Pty Ltd on request. Call Customer Service on (02) 9999 6655 or visit titanag.com.au

CONDITIONS OF SALE: TITAN AG 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 TITAN AG's skill or judgment in purchasing or using the same and every person dealing with this product does so at his own risk absolutely. No representative of TITAN AG Pty Ltd has any authority to add to or alter these conditions.

Additional statements required by Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia: Causes serious eye irritation. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects. Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Collect spillage. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

