

POISON

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

TITAN

FLUQUINCONAZOLE 167 SC

SEED TREATMENT

ACTIVE CONSTITUENT: 167g/L FLUQUINCONAZOLE

GROUP **3** FUNGICIDE

For the control of a range of foliar and head diseases in Wheat and Barley, plus the suppression of Take-all and Septoria Tritici Blotch in Wheat and Blackleg in Canola.

APVMA Approval No.: 86641/116249

Pack Size: 1L-1000L



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IN A TRANSPORT EMERGENCY

DIAL 000

POLICE OR FIRE BRIGADE

TRANSPORT AND HANDLING
NOT A DANGEROUS GOOD
ACCORDING TO THE AUSTRALIAN
DANGEROUS GOODS (ADG) CODE
FOR TRANSPORT BY ROAD AND RAIL

DIRECTIONS FOR USE

Restraints:

DO NOT apply to damaged, shot or pinched seed.

DO NOT apply treated seed from aircraft.

CROP	DISEASE	APPLICATION RATE	CRITICAL COMMENTS
Wheat	Take-all (Suppression) (<i>Gaeumannomyces graminis</i>)	<u>Undiluted</u> 4.5L/tonne of seed <u>Diluted</u> 4.5L plus up to 1.5L of water/ tonne of seed	Ensure even coverage of seed. Apply with an applicator designed for liquid seed treatments. Calibrate application equipment for the flow rate of the grain. TITAN Fluquinconazole 167 SC Seed Treatment may be diluted with water prior to application to improve coverage. If applying dilute, or in mixtures the maximum recommended application volume is 6L per tonne of seed.
	Common Bunt (<i>Tilletia</i> spp.), Seed- and soil-borne Flag Smut (<i>Urocystis agropyri</i>), Loose Smut (<i>Ustilago tritici</i>), Stripe Rust* (<i>Puccinia striiformis</i> f. sp. <i>tritici</i>), Leaf Rust** (<i>Puccinia triticina</i>), Septoria Tritici Blotch (Suppression) (<i>Mycosphaerella graminicola</i>)	<u>Undiluted</u> 3.0 or 4.5L/tonne of seed <u>Diluted</u> 3.0L plus up to 3.0L of water/ tonne of seed OR 4.5L plus up to 1.5L of water/ tonne of seed	* Stripe Rust will be controlled for up to 6 weeks after sowing, with good suppression thereafter at the 4.5L/tonne seed rate. Use of TITAN Fluquinconazole 167 SC Seed Treatment at the 3.0L/tonne seed rate will provide up to 5 weeks control after sowing and good suppression thereafter. ** Leaf Rust will be controlled for up to 4 weeks after sowing, with good suppression thereafter at the 4.5L/tonne seed rate. Use of TITAN Fluquinconazole 167 SC Seed Treatment at the 3.0L/tonne seed rate will provide up to 3 weeks control after sowing and good suppression thereafter.
Barley	Barley Leaf Scald [^] (<i>Rhynchosporium secalis</i>), Powdery Mildew [#] (<i>Blumeria graminis</i> f. sp. <i>hordei</i>), Barley Loose Smut (<i>Ustilago nuda</i> var. <i>hordei</i>), Covered Smut (<i>Ustilago segetum</i> var. <i>hordei</i>)	<u>Undiluted</u> 3.0L TITAN Fluquinconazole 167 SC Seed Treatment + 1.0L Tebuconazole/Triflumuron seed treatment/tonne of seed <u>Diluted</u> 3.0L TITAN Fluquinconazole 167 SC Seed Treatment + 1.0L Tebuconazole/Triflumuron seed treatment up to 2.0L of water/tonne of seed	Ensure even coverage of seed. Apply with an applicator designed for liquid seed treatments. Calibrate application equipment for the flow rate of the grain. TITAN Fluquinconazole 167 SC Seed Treatment may be diluted with water prior to application to improve coverage. If applying dilute, or in mixtures, the maximum recommended application volume is 6L per tonne of seed. [^] Barley Leaf Scald is controlled for up to 6 weeks after sowing, with good suppression thereafter. [#] Powdery Mildew is controlled for up to 5 weeks after sowing, with good suppression thereafter.
Canola	Blackleg (Suppression) (<i>Leptosphaeria maculans</i>)	20L/tonne of seed	Ensure even coverage of seed. Apply undiluted with an applicator designed for liquid seed treatments. Calibrate application equipment for the flow rate of the grain.

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

WITHHOLDING PERIODS

Wheat and Barley Harvest: NOT REQUIRED WHEN USED AS DIRECTED.

DO NOT CUT FOR STOCKFOOD WITHIN 12 WEEKS OF SOWING.

Grazing: DO NOT GRAZE WITHIN 6 WEEKS OF SOWING.

Livestock producing milk for human consumption: DO NOT GRAZE WITHIN 12 WEEKS OF SOWING.

Canola Harvest: NOT REQUIRED WHEN USED AS DIRECTED.

Grazing: DO NOT GRAZE PLANTS GROWN FROM TREATED SEED, OR CUT FOR STOCK FOOD WITHIN 8 WEEKS OF SOWING.

Trade Advice: LIVESTOCK DESTINED FOR EXPORT MARKETS

The grazing withholding periods apply to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that in addition to complying with the grazing withholding period, the Export Slaughter Interval (ESI) is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVAL (ESI) – 7 weeks

Livestock that have been grazing on crops grown from treated seed should be placed on clean feed for 7 weeks prior to export slaughter.

GENERAL INSTRUCTIONS

TITAN Fluquinconazole 167 SC Seed Treatment is a novel quinazoline-based triazole fungicide for the protection of Wheat against the root disease Take-all and protection of Canola against Blackleg. When TITAN Fluquinconazole 167 SC Seed Treatment is applied as a seed treatment to Wheat, the development of Take-all is suppressed.

Suppression of Take-all with TITAN Fluquinconazole 167 SC Seed Treatment is characterised by reduced root lesions and a reduced number of whiteheads. TITAN Fluquinconazole 167 SC Seed Treatment also provides season long control of Common Bunt, seed- and soil-borne Flag Smut and Loose Smut in Wheat. In addition TITAN Fluquinconazole 167 SC Seed Treatment provides early season control of Leaf Rust, Stripe Rust and suppression of Septoria Tritici Blotch in Wheat.

Suppression of Septoria Tritici Blotch with TITAN Fluquinconazole 167 SC Seed Treatment results in a reduction in the visible symptoms of this disease.

When applied to barley TITAN Fluquinconazole 167 SC Seed Treatment provides early season control of Powdery Mildew and Scald, with good suppression of both diseases for an extended period. In order to provide adequate control of Loose Smut and Covered Smut in Barley, TITAN Fluquinconazole 167 SC Seed Treatment must be applied in tank mixture with a full label rate of Tebuconazole/Triflumuron seed treatment as indicated in the Application Rate section of the Directions for Use Table.

When TITAN Fluquinconazole 167 SC Seed Treatment is applied as a seed treatment to Canola, the development of Blackleg disease is suppressed. Suppression of Blackleg with TITAN Fluquinconazole 167 SC Seed Treatment is characterised by reduced leaf infection, reduced plant lodging and increased plant survival. TITAN Fluquinconazole 167 SC Seed Treatment is applied to Wheat, Barley and Canola seed prior to sowing. The low water solubility of the active ingredient, fluquinconazole, allows extended uptake for long lasting protection of the plant, thus reducing the yield decline commonly associated with the above-mentioned root, grain and foliar diseases. TITAN Fluquinconazole 167 SC Seed Treatment contains a red pigment so that treated grain can be easily identified.

APPLICATION

TITAN Fluquinconazole 167 SC Seed Treatment is applied to the seed prior to sowing. It may be applied alone or in mixture with certain other seed treatment products, depending on the crop being treated and the target diseases (see below). For treatment of Wheat and Barley seed Titan Fluquinconazole 167 SC Seed Treatment may also be diluted with water prior to application.

Application must be conducted with a seed treatment machine suitable for flowable seed dressings, with an adjustable output. The equipment must be calibrated for the flow rate of the seed, to ensure even coverage and correct application rates. For best results, TITAN Fluquinconazole 167 SC Seed Treatment should be used to treat only undamaged, cleaned seeds of high viability.

Wheat: TITAN Fluquinconazole 167 SC Seed Treatment is a water based flowable product that can be applied neat or diluted with water. When applying the diluted product, prepare sufficient solution for the quantity of grain to be treated. DO NOT store diluted product. DO NOT dilute Titan Fluquinconazole 167 SC Seed Treatment with water such that greater than 6L dilute product per tonne of seed is applied.

Barley: TITAN Fluquinconazole 167 SC Seed Treatment must be mixed with Tebuconazole/Triflumuron seed treatment prior to application. This mixture may be applied neat or diluted with water. DO NOT dilute the mixture of TITAN Fluquinconazole 167 SC Seed Treatment and Tebuconazole/Triflumuron seed treatment with more than 2.0 litres of water for each tonne of Barley seed to be treated. Prepare sufficient solution only for the quantity of grain to be treated. DO NOT store diluted product.

Canola: Apply Titan Fluquinconazole 167 SC Seed Treatment neat to Canola seed. DO NOT add water.

Mixing Instructions Wheat and Barley only: If mixing other compatible products or water with TITAN Fluquinconazole 167 SC Seed Treatment, mix only sufficient product for immediate use. Add the required compatible product or water to TITAN Fluquinconazole 167 SC Seed Treatment and agitate thoroughly by shaking, rolling or stirring. DO NOT allow mixed product to stand for more than five hours without further agitation.

COMPATIBILITY

TITAN Fluquinconazole 167 SC Seed Treatment Seed Treatment may be applied with TITAN Imidacloprid 600 Flowable Seed Dressing Insecticide.

Wheat only: TITAN Fluquinconazole 167 SC Seed Treatment is compatible with Cypermethrin/Flutriafol, Carboxin/Cypermethrin (up to 1.25L/tonne) and Tebuconazole/Triflumuron seed treatments.

Barley only: TITAN Fluquinconazole 167 SC Seed Treatment is compatible with Tebuconazole/Triflumuron seed treatments.

Where additional protection against grain storage pests is required, TITAN AG recommends a mixture of TITAN Fluquinconazole 167 SC Seed Treatment with other grain protection insecticide. Refer to the product label for application information.

FUNGICIDE RESISTANCE WARNING

TITAN Fluquinconazole 167 SC Seed Treatment is a member of the triazole group of fungicides.

For fungicide resistance management TITAN Fluquinconazole 167 SC Seed Treatment is a Group 3 fungicide. Some naturally occurring individual fungi resistant to TITAN Fluquinconazole 167 SC Seed Treatment and other Group 3 fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal population if these fungicides are used repeatedly. These resistant fungi will not be controlled by TITAN Fluquinconazole 167 SC Seed Treatment and other Group 3 fungicides, thus resulting in a reduction in efficacy and possible yield loss.

Since the occurrence of resistant fungi is difficult to detect prior to use, TITAN AG Pty Ltd accepts no liability for any losses that may result from the failure of TITAN Fluquinconazole 167 SC Seed Treatment to control resistant fungi.

CROP SAFETY

Canola: TITAN Fluquinconazole 167 SC Seed Treatment may shorten the hypocotyl length of Canola. To avoid possible negative effects, TITAN AG recommends following good Canola sowing practices. Avoid sowing TITAN Fluquinconazole 167 SC Seed Treatment treated Canola deeper than 20mm, or into soils prone to crusting. Ensure TITAN Fluquinconazole 167 SC Seed Treatment treated seed is sown in the season of treatment.

PRECAUTIONS

DO NOT use treated seed for human or animal consumption. DO NOT allow treated seed to contaminate grain or other seed intended for human or animal consumption.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

Treated seed could be harmful to game and wildlife. DO NOT feed treated seed to wild or domestic birds. Any spillage of treated seed, however minor, must be cleaned up immediately, preferably recovered and used. DO NOT contaminate streams, rivers or waterways with either this product, washings of this product, treated seed, or any container which has held product (see Storage and Disposal for directions).

PROTECTION OF LIVESTOCK

DO NOT feed treated seed to livestock, including poultry.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. DO NOT store near foodstuffs or animal feed. This container can be recycled if it is clean, dry, free of visible residues and has the *drumMUSTER* logo visible. Triple rinse containers before disposal. Dispose of rinsate by adding to the spray tank. DO NOT dispose of undiluted chemical on-site. Wash outside of container and cap. Store cleaned container in a sheltered place with cap removed. It will then be suitable for recycling at any *drumMUSTER* collection point, or any similar container management program site. The cap should not be replaced but taken separately. 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.

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

Treated seed and containers of treated seed: Store treated seed in clearly marked bags or silos, away from other grain, animal feed or foodstuffs, in a cool, dry storage area. DO NOT use treated seed for human or animal consumption. If disposal of treated seed is necessary eg. when cleaning up spillages, bury seed below 500mm in a suitably located disposal pit, as described above. DO NOT use bags that have contained treated seed for any other purpose.

SAFETY DIRECTIONS

Harmful if swallowed. May irritate the eyes. Avoid contact with the eyes. When preparing the mixture and using the prepared mixture, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), elbow-length PVC gloves and goggles. Wash hands after use. After each day's use, wash gloves, goggles and contaminated clothing.

GROUP **3** FUNGICIDE



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 Fluquinconazole 167 SC 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: Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes damage to organs through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects. **Precautionary Statements:** Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves. **IF SWALLOWED:** Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. **IF ON SKIN:** Wash with plenty of water. Specific treatment (see on this label). **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. Dispose of contents/container in accordance with local/regional/national regulations.

