

Thiraflo Flowable Fungicide – 20L	22/10/2004
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POISON
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

THIRAFLO[®]
FLOWABLE FUNGICIDE

ACTIVE CONSTITUENT: 600 g/L THIRAM

GROUP Y FUNGICIDE

For use as a seed treatment to control various fungal diseases of chickpeas, lupins & sorghum and as a drench to control fungal diseases of turf as specified in the Directions For Use table.

Contents: 20 L

(Crompton logo)

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DIRECTIONS FOR USE:

RESTRAINTS:

DO NOT mix this product in a slurry with chickpea or lupin rhizobial inoculant.
 Only treat good quality sound seed as treatment of mechanically damaged or poor quality seed may result in reduced germination and/or reduced seedling vigour and emergence.

Situation	Disease	Rate	Critical Comments
TURF	Brown patch (<i>Rhizoctonia solani</i>), Helminthosporium leaf spot, fusarium patch (<i>Fusarium</i> spp.)	160 mL in 20 litres of water per 100m ²	Apply at first sign of disease and repeat at 7-14 day intervals, particularly in humid weather.
	Damping off (not NSW)	200 mL in 60 litres of water per 100m ²	Apply as a drench to the seedbed. Repeat every 5 – 7 days during disease susceptible periods.
Seed Type			
CHICKPEAS KABULI (GARBANZO) VARIETIES	Damping off (<i>Pythium</i> spp) and other soil-borne fungi that cause pre-emergence seed rot, and seed-borne botrytis	2.0 L/t seed	Make a slurry by mixing 2 litres of Thiraflo Flowable Fungicide with 3 litres of water. Apply 5 litres of this mixture per tonne of seed. Apply only to good quality graded chickpea and lupin seed. Move the seed up a grain auger or apply in a suitable mixer. The mixing of seed after application is essential to obtain good seed coverage. The total volume of slurry applied/tonne should be minimised to approx. 5 litres. Handle seed carefully after application and avoid excess wetting to prevent damage to the seed coat.
CHICKPEAS DESI VARIETIES	Seed-borne botrytis		
LUPINS	Seed-borne anthracnose	1.7 – 2.0 L/t seed	

SORGHUM	Seedling decay complex	2.5-3.5L/t seed	Thiraflo must be applied at the correct rate to achieve uniform coverage of all seeds. Thiraflo can be applied to the seed undiluted or mixed with water to achieve optimum coverage of grain with the seed treatment. Use the lower rate when disease pressure is expected to be diminished. Seed must be treated uniformly using suitable treatment machinery. Secondary mixing in an auger is important to ensure good seed coverage.
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Seed Type	Purpose	Rate	Critical Comments
SORGHUM SEED – For Export Only	To meet export requirements	Up to 4 litres per tonne of seed	Treated seed is for export only. Use of product must be in accordance with importing countries requirements. Be aware of any importing countries residue tolerance limits and do not apply product at a rate that will exceed the tolerance limits of the importing country. Treated seed that is not exported must be disposed of in a manner that does not result in planting or consumption by humans or animals.

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

**WITHHOLDING PERIOD:
NOT REQUIRED WHEN USED AS DIRECTED**

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GENERAL INSTRUCTIONS:

Thiraflo Flowable Fungicide is a suspension concentrate (flowable) fungicidal seed dressing for treatment of chickpea, lupin and sorghum seed by standard methods.

Inoculation of Seed: This product does not adversely affect germination if used as directed, however, when rhizobial inoculant is also applied to seed, the viability of the inoculum may be reduced. Inoculum can be applied to the seed in a separate operation after seed treatment. Apply the inoculum on the day of sowing after the fungicide treatment has dried on the seed. Sow into a moist seedbed as soon as possible after treatment. If seed is sown into a dry seedbed, then fungicidal seed treatment can cause a reduction in nodulation. Alternatively, inoculum can be sprayed into the furrow at seeding rather than combined on seed treated with this product. This method of applying inoculum is not recommended in WA.

Mixing & Application:

Turf should be in good nutritional condition prior to treatment to prevent damage to sensitive turf species (e.g. fescues, bluegrass and turf type ryegrass).

Thiraflo Flowable Fungicide may be applied to seed undiluted or may be mixed with water if required to achieve optimum coverage of grain. This requirement will depend on the equipment in use and the rates to be applied. Use only equipment designed to apply suspension concentrate or slurry seed treatments to seed. As the product can dry-out on exposed internal container surfaces under hot summer conditions and flakes may form, filter before use. Do not let liquid dry-out in application equipment as flakes can block filters and limit the flow to spray nozzles. Equipment used for applying this product can be cleaned out with water. Shake the container before adding water to the product. After adding the required amount of water to the product, shake again. Where the diluted product has been permitted to stand for an extended period, then the mixture should be again agitated well.

Sowing: Check seed flow through the drill after treatment as treated seed can flow more slowly.

Storage of Treated Seed: If seed is not used immediately after treatment, it should be stored in a dry, well-ventilated place. Although Thiraflo Flowable Fungicide 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 performance of stored treated seed. Treated seed should not be held over from one sowing season for sowing in subsequent seasons.

Fungicide Resistance Warning:

GROUP	Y	FUNGICIDE
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For fungicide resistance management, Thiraflo Flowable Fungicide is a Group Y fungicide. Some naturally occurring individual fungi resistant to Thiraflo Flowable Fungicide and other Group Y fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungal populations if these fungicides are used repeatedly. These resistant fungi will not be controlled by Thiraflo Flowable Fungicide or other Group Y 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, Crompton Specialties Pty Ltd accepts no liability for any losses that may result from the failure of Thiraflo Flowable Fungicide to control resistant fungi.

Compatibility: This product is compatible, and may be mixed, with Lupinflo[®] Seed Dressing Fungicide at normal rates.

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PROTECTION OF LIVESTOCK:

Seed treated with Thiraflo Flowable Fungicide must not be used for animal or human consumption. It is important that any treated seed not used for sowing is destroyed. Bags that have held treated seed should not be used for any other purpose. DO NOT allow seed treated with Thiraflo Flowable Fungicide to contaminate grain intended for animal or human consumption. When treated seed is stored, it should be left apart from grain and the bags (or other containers) and should be clearly marked to indicate the contents have been treated with Thiraflo Flowable Fungicide.

DO NOT feed or otherwise expose treated seed to domestic animals and birds.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT:

DO NOT feed or otherwise expose treated seed to wild animals and birds. Dangerous to fish. DO NOT contaminate streams, rivers or waterways and drains with this product or used containers or with bags that have held treated seed.

STORAGE AND DISPOSAL:

Store in the closed, original container in a well-ventilated area, as cool as possible. Do not store for prolonged periods in direct sunlight.

Triple or preferably pressure 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 bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS:

May irritate the eyes, nose, throat and skin. Repeated exposure may cause allergic disorders. Avoid contact with eyes and skin. Do not inhale spray mist. When opening the container, preparing the product and using the prepared product wear cotton overalls buttoned to the neck and wrist, elbow length rubber gloves, face shield or goggles. If product on skin, immediately wash area with soap and water. If product in eyes, wash it out immediately with water. Wash hands after use. After each days use, wash gloves, face shield or goggles and contaminated clothing.

FIRST AID:

If poisoning occurs, contact a doctor or Poisons Information Centre. *Phone Australia 131 126.* Avoid giving alcohol.

MATERIAL SAFETY DATA SHEET:

For additional information, refer to the Material Safety Data Sheet.

CONDITIONS OF SALE:

Crompton Specialties Pty Ltd will not accept any responsibility whatsoever and howsoever arising and whether for consequential loss or otherwise in connection with the supply or use of these goods other than responsibility for the merchantable quality of the goods and such responsibilities mandatorily imposed by Statutes applicable to the sale or supply of these goods. To the extent allowed by such Statutes the liability of Crompton Specialties Pty Ltd is limited to the replacement of the goods or (at the option of Crompton Specialties Pty Ltd) the refund of the price paid and is conditional upon a claim

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being made in writing and where possible sufficient part of the goods to enable proper examination being returned to Crompton Specialties Pty Ltd within thirty days of delivery.

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UN No. 3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS THIRAM) MARINE POLLUTANT
In an Emergency Dial 000 Police or Fire Brigade P.G. III	SPECIALIST ADVICE IN EMERGENCY ONLY Crompton Specialties Pty Ltd 1800 033 111 ALL HOURS – AUSTRALIA WIDE HAZCHEM 2X

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