

DIRECTIONS FOR USE			
<b>RESTRAINTS:</b> 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	PEST	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 <sup>2</sup>	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 <sup>2</sup>	Apply as a drench to the seedbed. Repeat every 5-7 days during disease susceptible periods.
SEED TREATMENT	Damping Off ( <i>Pythium</i> spp.) and other soil born fungi that cause pre-emergence seed rot and seed born Botrytis	2 Litres per tonne of seed	Product can be applied as a slurry by mixing the required volume of product with up to 3 litres of water per tonne of seed. Volume of water used should be sufficient to achieve optimum coverage of the grain (upto 3 Litres of water per tonne of seed). Apply only to good quality seed. Move seed up and down a grain auger or apply in a suitable mixer.
CHICKPEAS Kabuli (Garbanzo) Varieties	Seed Borne Botrytis		
CHICKPEAS Desi Varieties	Seed Borne Botrytis		
LUPINS	Seed Borne Anthracnose	1.7-2 Litres per tonne of seed	Thorough mixing of the seed after application is required to ensure good coverage. Handle seed carefully after application and avoid excess wetting to prevent damage to coating.
SORGHUM	Seed decay complex	2.5-3.5 Litres per tonne of seed	Apply to the seed undiluted or mixed with sufficient water to achieve optimum coverage of grain with the seed treatment. Use the lower rate when disease pressure is expected to be diminished. Move seed up and down a grain auger or apply in a suitable mixer. Through mixing of the seed after application is required to ensure good coverage.
SITUATION	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.**

**WITHOLDING PERIOD:** Not required when used as directed.

Batch Number



Date of Manufacture

# POISON


KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTIONS BEFORE OPENING OR USING

BARMAC

# Thiram LIQUID

Fungicide




**ACTIVE CONSTITUENT:**  
600g/L THIRAM

**GROUP Y FUNGICIDE**

**For the control of fungal diseases of turf and as a seed treatment as per directions for use.**

Contents: 5 Litres

**BARMAC**  
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**GENERAL INSTRUCTIONS**

**MIXING**

Turf should be in good nutritional condition prior to treatment to prevent damage to sensitive turf species (e.g. fescues, bluegrass and turf type rye grass), if repeat applications are made too soon.

This product can be applied to seed undiluted or may be mixed with water to achieve optimum coverage of the grain. Volumes of water used will depend upon equipment to be used and product rate. Use only in equipment designed for applying liquids or slurries to seed. As flakes may form on the inside of the container, filter before use. DO NOT allow product to dry in application equipment as the resulting flakes can block filters and nozzles reducing the performance of the equipment. Clean equipment with water after use.

Shake container well before and either shake or agitate well once mixed with water. Agitate regularly during application.

**INOCULATION (Seed):** This product will not affect germination of seed if used as directed, however when rhizobial inoculant is also applied to the seed, the viability of the inoculant may be reduced. Chickpea and lupin inoculant can be applied to the seed in a separate operation after seed treatment. Apply the inoculant 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 the fungicide can cause a reduction in nodulation. Alternatively, inoculant can be sprayed into the furrow at seeding rather than combining with the treated seed. This method of applying inoculant is not recommended in WA.

**SOWING**

Check seed flow through the sowing equipment as treated seed can flow more slowly.

**STORAGE OF TREATED SEED**

Store treated seed, if not use immediately after treatment, in a dry well-ventilated place. Poor storage of treated seed such as high moisture combined with high temperature can adversely affect subsequent germination. Treated seed should not be held over from one sowing season to be sowed in subsequent seasons. Treated seed should be stored apart from other seed, seed bags or other containers. Bags should be marked to clearly indicate seed has been treated with this product. Empty bags should not be used for any other purpose.

**COMPATIBILITY**

DO NOT mix with lime Sulphur or Bordeaux sprays. DO NOT mix with fungicides containing copper.

**FUNGICIDE RESISTANCE WARNING**

For fungicide resistance management Barmac Thiram Liquid Fungicide is a Group Y fungicide.

Some naturally occurring individual fungi resistant to Barmac Thiram Liquid Fungicide and other Group Y fungicides may exist through normal genetic variability in any fungal population. The resistant individuals can eventually dominate the fungi population if these fungicides are used repeatedly. These resistant fungi will not be controlled by Barmac Thiram Liquid Fungicide and other Group Y fungicides, thus resulting in reduction in efficacy and possible yield loss. Since the occurrence of resistant fungi is difficult to detect prior to use, Barmac (a division of Amgrow Australia Pty Ltd) accepts no liability for any losses that may result from the failure of Barmac Thiram Liquid Fungicide to control resistant fungi.



**PROTECTION OF LIVESTOCK**

DO NOT feed grass clippings from treated areas or treated seed to poultry, birds or animals. Seed treated with this product must not be used for animal or human consumption. Destroy any treated seed that has not been used.

**PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT**

Dangerous to fish. DO NOT contaminate streams, rivers or waterways with the chemical or used containers including empty bags which have held treated seed. DO NOT feed or allow birds or wild animals to access 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 rinse 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 cleaned container to recycler or designated collection point. If not recycling, puncture and bury empty containers in a local landfill. If not available, bury the containers at a depth of 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers or product should not be burned.

**SAFETY DIRECTIONS**

May irritate the eyes, nose, throat and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. Wash hands after use.

**FIRST AID**

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131126.

**SAFETY DATA SHEET**

Additional information is listed on the Safety Data Sheet available from Barmac or from our internet site www.barmac.com.au.

**NOTICE**

Product is designed only for the particular purposes indicated on the label. Failure to use the product strictly as directed may be illegal, prove dangerous and render the product ineffective.

Additional information required under the Globally Harmonised System (GHS) classification of the substance/mixture: **Harmful if inhaled. Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.** Do not eat, drink or smoke when using this product. Use only outdoors or in a well ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, protective clothing and eye or face protection. Take off contaminated clothing and wash it before reuse. **IF SWALLOWED:** Call a POISON CENTRE or doctor if you feel unwell. Rinse mouth. **IF INHALED:** Remove persons to fresh air and keep comfortable for breathing. **IF ON SKIN:** Wash with plenty of soap and water. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove Contact lenses, if present and easy to do. Continue rinsing. Collect spillage.

APVMA Approval Number: 54659/0203