

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

Proleaf[®]T

SEED TREATMENT

ACTIVE CONSTITUENTS: 150 g/L TRIADIMENOL
4 g/L TRIFLUMURON

GROUP 3 FUNGICIDE

GROUP 15 INSECTICIDE

For control of bunt, flag smut and loose smut of wheat and suppression of seedling stripe rust and speckled leaf blotch. For control of covered smut, loose smut and powdery mildew of barley and suppression of leaf scald. For control of loose and covered smut of oats. Treated seed is also protected against insect pests of stored grain.

Contents: 10 L

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DIRECTIONS FOR USE

Restraint: DO NOT treat physically damaged seed.

Crop	Disease/Pest	Rate	Critical Comments
Wheat	Bunt, flag smut (seed and soil borne), loose smut. Suppression of seedling infections of stripe rust.	100 mL/ 100 kg seed	Proleaf T can be used neat or diluted with water if required, to achieve optimum coverage of grain. If using diluted, as a guide, use a minimum of 400 mL of mixture (i.e. Proleaf T plus water) with each 100kg seed. Do not use more than 600mL of mixture (Proleaf T + water) with each 100kg seed. Whatever solution is used it is essential that the correct application rate ie. 100mL or 150mL of Proleaf T is applied to 100kg seed. If using water, the mixture should be gently stirred regularly. If nasal irritation occurs wear a face mask while treating seed. Use the 150 mL/100 kg seed rate where foliar diseases frequently occur and where any of the following are required: – longer suppression of stripe rust on seedlings – control of seedling infections of powdery mildew – suppression of speckled leaf blotch in wheat – extended suppression of leaf scald in barley (use higher rate on more susceptible varieties or where disease pressure is heavy).
Oats	Covered and loose smut.		
Barley	Covered and loose smut. Suppression of seedling infections of powdery mildew. Suppression of seedling infections of leaf scald (not Queensland).		
Wheat	Bunt, flag smut (seed and soil borne), loose smut. Suppression of seedling infections of stripe rust (not Queensland). Suppression of seedling infections of speckled leaf blotch (not Qld and WA).	150 mL/ 100 kg seed	
Barley	Covered and loose smut. Control of seedling infections of powdery mildew. Suppression of seedling infections of leaf scald (not Queensland).		
Wheat Barley Oats	Protection against insect pests of stored grains: Granary weevil, lesser grain borer, rice weevil, rust-red flour beetle, sawtoothed grain beetle.	100 or 150 mL/ 100 kg seed	Both rates protect treated seed from grain insect pests. Use rate appropriate to disease control required.

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

WITHOLDING PERIODS:

FOOD PRODUCING CROPS: NOT REQUIRED WHEN USED AS DIRECTED

STOCK: DO NOT GRAZE PLANTS GROWN FROM TREATED SEED, OR CUT FOR STOCK FOOD WITHIN 5 WEEKS OF SOWING

GENERAL INSTRUCTIONS

Proleaf T, especially at the higher rate of 150 mL/100 kg seed, may delay emergence of wheat. Crops will recover rapidly in most soil types. However, seed treated with the 150 mL/100 kg seed rate should not be sown in soils that are likely to crust or clod at the surface after sowing. Sowing Proleaf T treated wheat deeper than 50 mm may also slightly reduce percentage plant establishment in heavier soils and sowing rates may need to be adjusted accordingly. The possible delay in emergence of wheat treated with the 150 mL/100 kg seed rate may counteract the advantage of suppression of speckled leaf blotch.

Mixing and application

Proleaf T Seed Treatment 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. If using water, add the required volume of Proleaf T to the water whilst agitating. Use only through equipment designed to apply suspension concentrate or slurry seed treatments to grain.

Fungicide Resistance Warning

GROUP 3 FUNGICIDE

Proleaf T Seed Treatment is a member of the DMI group of fungicides. For fungicide resistance management the product is a Group 3 fungicide. Some naturally occurring individual fungi resistant to the product 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 this product 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, Arysta LifeScience Australia Pty Ltd accepts no liability for any losses that result from failure of this product to control resistant fungi.

Insecticide Resistance Warning

GROUP 15 INSECTICIDE

For insecticide resistance management, triflumuron is a Group 15 insecticide. Some naturally occurring insect biotypes resistant to triflumuron and other Group 15 insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if triflumuron and other Group 15 insecticides are used repeatedly. The effectiveness of triflumuron on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Arysta LifeScience Australia Pty Ltd accepts no liability for any losses that may result from the failure of triflumuron to control resistant insects. Triflumuron may be subject to specific resistance management strategies. For further information contact your local supplier, Arysta LifeScience Australia Pty Ltd representative or local agricultural department agronomist.

Seed quality

Proleaf T Seed Treatment should not be used on seed with more than 12% moisture content, or on sprung, sprouted, damaged or severely pinched seed, or 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 Proleaf T as directed will raise the moisture level of the seed by up to 0.6%, depending on weather conditions at treatment. The use of Proleaf T mixed with water at recommended rates will have no effect on the storage life of treated sound seed.

Storage of treated seed

Treated seed may be held over for sowing in the following season. If so, additional insecticide treatment will be necessary. Treated seed prevents insects from multiplying and preserves grain condition but may not kill adult insects migrating from other infested grain. If the seed is not used immediately after treatment it should be stored in a dry, well ventilated place. Although Proleaf T 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.

Cleaning up

Equipment should be thoroughly cleaned with water. In the event of changing from this water based flowable formulation to a solvent based liquid formulation, it is essential to rinse equipment with methylated spirits after thoroughly cleaning with water. If changing from a solvent based liquid to this water based flowable, thoroughly clean with methylated spirits then rinse with water. Failure to do so will result in clogging of equipment.

Precaution

Do not allow seed treated with this product to contaminate seed intended for human consumption. If possible, use a separate auger for treating seed. If using the same auger for treating seed and moving grain for human consumption, remove all Proleaf T residue from the auger to avoid contaminating untreated seed with seed dressing residues. 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 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 feed treated seed or otherwise expose to wild or domestic birds.

Harmful to fish and aquatic arthropods. Do NOT contaminate dams, rivers, ponds, waterways or drains with this product, used containers or bags which have held treated seed.

Storage and Disposal and Protection of Others

Store product in the closed, original container in a dry, cool, well ventilated area out of direct sunlight.

This container can be recycled if it is clean, dry, free of visible residues and has the drumMUSTER logo visible. Triple-rinse container for disposal. Dispose of rinsate by adding it to the spray tank. Do not dispose of undiluted chemical on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any drumMUSTER collection or similar container management program site. The cap should not be replaced, but may be taken separately.

Safety Directions

Wash hands after use.

First Aid

If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 13 11 26.

Material Safety Data Sheet

For further information refer to the Material Safety Data Sheet for the product.

Liability

This product must be used strictly as directed. Arysta LifeScience Australia Pty Ltd accepts no responsibility for loss or damage arising from failure to follow directions for use.

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APVMA Approval Number 54162/10/0706

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