

**IT IS AN OFFENCE TO USE THIS PRODUCT ON ANIMALS.**

At the time of treatment the seed must be dyed a distinctive colour.

Containers of treated seed must be labelled with the following:

1. Seed treated with Starlan must not be used for human or animal consumption.
2. Treated seed may be harmful to seed-eating birds, and should be properly sown and completely covered by soil.
3. Excess seed is not to be left in areas accessible to birds.

**Withholding Periods:**

- Cereals, forage brassicas, pasture, maize and sweetcorn – 42 days.
- Grass seed oversown into grazed pasture (stitching) – 21 days from oversowing.

This statement must be in bold print on the labels of treated seed containers.

Starlan is a systemic seed treatment insecticide for the protection of cereals from grass grub larvae and aphids, forage brassicas from aphids, Argentine stem weevil, springtails (Sminthuridae family) and wheat bug, grass seedlings from grass grub larvae and black beetle adults, maize and sweetcorn seedlings from Argentine stem weevil and black beetle, potatoes from aphids and pumpkins and winter squash from aphids, Argentine stem weevil, grass grub beetle, lucerne flea and springtails.

**DIRECTIONS FOR USE:**

**MIXING:** Prior to mixing ensure the container is rolled to re-suspend the formulation. When decanting, ensure adequate agitation is maintained.

**RECOMMENDATION:**

Crop	Pest	Product Rates	Comments
Cereals	Grass grub larvae, Aphids	90 ml/100kg of seed	Mix with sufficient water (usually 10 litres/tonne of seed) and apply to seed ensuring even coverage.
Forage brassicas	Aphids, Argentine stem weevil, Springtails ( <i>Sminthuridae family</i> ), Wheat bug	12-24 ml/kg of seed	Apply to seed ensuring even coverage. The higher rate will increase the period of protection against aphids.
Grass seed	Grass grub larvae, Black beetle adults	580 ml/100kg of seed	Mix with sufficient water, usually 10 litres/tonne, and apply to seed ensuring even coverage.
Maize, Sweetcorn	Argentine stem weevil, Black beetle	580 ml/100kg of seed	Mix with sufficient water (1-2 litres/100kg of seed) and apply to seed ensuring even coverage. On sweetcorn, transitory phytotoxic effects may occur in some sweetcorn varieties, particularly under dry conditions. These will disappear as the plant matures.
Potatoes	Aphids	90 ml/tonne of seed	Mix with sufficient water, usually 2-3 litres and apply to seed tubers ensuring even coverage. If treated tubers are to be kept for later planting, ensure they are thoroughly dry before storing.
Pumpkins, Winter Squash	Aphids, Argentine stem weevil, Grass grub beetle, Lucerne flea, Springtails	50 ml/kg of seed	Mix with sufficient water (1-2 litres/100kg of seed) and apply to seed ensuring even coverage.

Starlan should only be applied through a properly calibrated seed treatment machine to high quality, undamaged seed. As Starlan treatment may alter the seed flow rate, calibrate the planter prior to planting with treated seed to ensure that the required plant population is achieved.

Starlan can be applied to seed previously treated with a fungicide or can be applied in conjunction with a seed treatment fungicide.

It is an offence for users of this product to cause residues exceeding the relevant MRL in the Food Notice: Maximum Residue Levels for Agricultural Compounds.

**WITHHOLDING PERIODS:**

- Cereals, forage brassicas, pasture, maize and sweetcorn: 42 days
- Grass seed oversown into grazed pasture (stitching): 21 days from oversowing

	<b>UN3082. CLASS 9, PG III. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (IMIDACLOPRID).</b> Do not carry this product on a passenger service vehicle.
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**DANGER**

KEEP OUT OF REACH OF CHILDREN

**Starlan®**

For use as a seed treatment on cereals, forage brassicas, grass seed, maize, sweetcorn, potatoes, pumpkins and winter squash.

**Active Ingredient:** contains 600g/litre imidacloprid in the form of a suspension concentrate.

**GROUP 4 INSECTICIDE**

Registered pursuant to the ACVM Act 1997 No. P9851  
See [www.foodsafety.govt.nz](http://www.foodsafety.govt.nz) for registration conditions

In a transport emergency dial 111, Police or Fire Brigade.

For specialist advice in an emergency only call:  
0800 734 607 (24 hours).



**Net Contents: 5 litres**



**READ LABEL BEFORE USE**



HSNO Classifications: 6.1C, 6.9B, 9.1A, 9.2A, 9.3B, 9.4A.

Approved under the HSNO Act 1996, HSR007662.

See [www.epa.govt.nz](http://www.epa.govt.nz) for controls. Qualified Person/Contractor: Required.

**DANGER:** Toxic if swallowed. May cause liver damage from repeated oral exposure at high doses. May cause sensitisation from prolonged skin contact. Very toxic to aquatic organisms with long lasting effects. Avoid contamination of any water supply with product or empty container. Very toxic to the soil environment. Very toxic to terrestrial invertebrates. Toxic to terrestrial vertebrates. Note requirements for labelling of treated seed. Take all reasonable steps to ensure that the substance does not cause any significant adverse effects to the environment beyond the application area. Do not apply directly onto or into water. Do not apply substance to plants if bees are foraging.

**HANDLING PRECAUTIONS:** Do not handle until all safety precautions have been read and understood. The person mixing or applying Starlan must be a "Qualified Contractor" or a "Qualified Person". The spray mixture may also be prepared by a "Qualified Loader". Do not breathe fume, mist or spray. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes, and inhalation of spray mist. Wash hands and exposed skin before meals and after work. If re-entry work is required within 24 hours of application, personal protection equipment should be worn.

**STORAGE:** Store locked up in the original, unopened container in a cool, dry place, out of direct sunlight and away from stockfeed or foodstuffs. As a Class 9 Substance with Ecotoxicity Classifications, storage must be carried out in such a manner as to prevent contamination of waterways. It is recommended that The New Zealand Standard for the Management of Agrichemicals (NZS8409) is followed. See Safety Data Sheet for further information.

**DISPOSAL OF CONTAINER:** Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



**FIRST AID:** If medical advice is needed, have product container or label at hand. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/ attention. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Immediately call a POISON CENTRE or doctor/physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**SPILLS:** Wear appropriate protective clothing and prevent material from entering waterways. Absorb spills with inert material and place in waste containers. Wash area with water and absorb with further inert material. Dispose of waste safely (such as to a suitable landfill).

**Batch No. and Manufacturing Date:** See on packaging

**Registered to and Distributed by:**

Adria New Zealand Limited. P.O. Box 535, 407 State Highway 16 Kumeu, Auckland.  
Ph: 09 412 9817. Fax: 09 412 9807. [www.adria.nz](http://www.adria.nz)



**Notice to Buyer:**

Careful tests have proved that the product is suitable for the recommended purposes when used in accordance with our instructions. However, since storage and use of product are beyond our control, we do not therefore accept any liability for damage or loss of efficacy which may result from the use of this product, whether used in accordance with the directions or not. We are liable for a consistent quality of the product, but the risk of its storage and use is not borne by us.

**RESISTANCE MANAGEMENT:** Starlan is a **GROUP 4 INSECTICIDE** and is a member of the Nicotinic acetylcholine receptor agonists nerve action mode of action group. Resistance to this insecticide could develop from excessive use. To minimise this risk use strictly in accordance with the label instructions and resistance management strategies. Refer to the NZCPR website ([www.nzpps.org/resistance/index.php](http://www.nzpps.org/resistance/index.php)) for more detailed information.