

IGR Grain Protection

Insect pests are a major source of damage to stored cereal grains. Heavy infestations can cause an increase in grain temperature and moisture levels, increasing the chance of fungal attack as well. Other problems include loss of grain weight and reduced germination rate.

Major cereal grain pests include:

- Lesser Grain Borer (*Rhyzopertha dominica*)
- Saw Toothed Grain Beetle (*Oryzaephilus surinamensis*)
- Grain Weevil (*Sitophilus granarius*)
- Rust-Red Flour Beetle (*Tribolium castaneum*)
- Confused Flour Beetle (*Tribolium confusum*)
- Rice Weevil (*Sitophilus oryzae*)

The solution – Rentokil IGR grain protectant

Rentokil IGR Grain Protectant is approved for use on all cereal grains (including Malting Barley). It uses the insect growth regulator S-Methoprene to help minimise damage to stored cereal grains from insect attack.

Features and benefits:

- Suitable for on-farm and bulk grain handlers.
- Contains 30g/L S-Methoprene.
- An advanced Methoprene formulation containing the more active “S” Isomer. This means you use less product and get less residue in the grain.
- Helps to protect grain for up to 9 months, at label mixing rate.

- Effective against organophosphate and pyrethroid resistant insect strains.
- 24 hour withholding period.
- 1 litre of Rentokil IGR mixed with 50 litres of clean water is sufficient to treat 50 tonnes of grain.

Please note:

- Rentokil IGR Grain Protectant is for treating uninfested cereal grain to give protection against immature stages of insect pests only.
- Grain that is already infested with insect pests should firstly be fumigated or treated with an insecticide such as Rentokil Fenitrothion 1000.



Grain Weevil



Lesser Grain Borer

Rentokil IGR grain protectant available in:

- 1 litre, 10 litre and 20 litre containers.
- Also available, Rentokil Grain Protection Pack. This contains 1 litre Rentokil IGR and 300ml Rentokil Fenitrothion 1000. Simply mix the contents of the pack with 50 litres of water to give sufficient product to treat 50 tonnes of grain, to help protect against the destruction and loss by insect pests.

Directions for use:

Restraints: DO NOT move treated grain within 24 hours after treatment.

SITUATION/CROP	PEST	RATE	CRITICAL COMMENTS
Stored cereal grain	<ul style="list-style-type: none"> • Lesser Grain Borer. • Rust-Red Flour Beetle. • Saw Toothed Grain Beetle including those resistant to organophosphates. 	1L in 50L clean water, for 6–9 months protection.	Apply at rate of 1L diluted spray per tonne of grain.
	<ul style="list-style-type: none"> • Stored grain insect pests (excluding <i>Sitophilus spp.</i>) 	As above plus 300mL Rentokil Fenitrothion 1000 insecticide.	

For full details refer to the product label before use.

How to use IGR grain pack

Pre-harvest

Hygiene is a key factor in managing insect pests in grain.

- Clean out all grain residues from storage areas.
- All rubbish and debris collected should be burnt.

These supportive hygiene and sanitation measures are basic. To provide maximum control:

- Use a tank mix of Rentokil Fenitrothion 1000 to carry out surface residual spraying to grain storage facilities and equipment.
- Apply the diluted spray to walls, floors, roof structures, machinery and transport vehicles etc. This treatment should be used as routine hygiene.
- Follow the label instructions carefully.

Please note:

- Every two years we recommend that you rotate your surface spraying of grain storage facilities and equipment with an alternative registered adulticide to avoid a build up of insect pest resistance.
- Ensure all cracks and crevices are cleaned and sprayed.

Application while storing grain

1. Equipment – Auger and Grain sprayer. Establish auger uplift in tonnes per hour and determine litres per hour at the sprayer head.
2. Spray treatment rates are correct when tonnes per hour uplift equals litres per hour spraying.
3. Fill a 50 litre capacity mix-tank with approx. 40 litres of clean water.
4. Add one litre Rentokil IGR to the mix tank (use bypass agitation) then add 300ml Rentokil Fenitrothion 1000 and mix well.
5. Top up mix tank with clean water to 50 litre mark and continue agitation.
6. Apply spray mix at the rate of 1 litre to 1 tonne of grain i.e. 50 litres to 50 tonnes.
7. Allow spray mix to settle onto grain for 24 hours prior to feeding stock or for human consumption.

PLEASE NOTE:

ALWAYS READ THE INSTRUCTIONS ON THE PRODUCT LABEL BEFORE USE.

Poisons Information Centre T: 131126