



# Product Use and Effectiveness 2017/18

Insecticide Group	Chemical	Full Rate Litres / 100 Litres	Full Rate PPM	Withholding	Domestic End Use Market				Target Pest						Approximate costs for comparisons	Comment Selection
					Malt Barley	Milling Wheat	Feed	Wheat - Starch / Gluten	Lesser Grain Borer	Rice / Granary Weevil	Flour Beetle	Sawtoothed Grain Beetle	Flat Grain Beetle	Moths		
Insect Growth Regulator Group 7A + Naturalyte Group 5	Conserve Plus* S-Methoprene IGR + Spinosad	1.0 litres	Spinosad 1 ppm Methoprene 1 ppm	1 Day	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	\$3.25 per ton	Rotate with K-Obiol every 1-2 years. Must be mixed with an Organophosphate. Bulk handlers must be accredited and agree to participate in ISO9001 quality assurance system
Synthetic Pyrethroid Group 3A	K-Obiol	2.0 litres	1 ppm	Nil	✓	✓	✓	✓	✓	Some resistance	Potential for resistance	✓	✓	✓	\$2.04 per ton	Rotate with Conserve Plus every 1-2 years. Must be mixed with an Organophosphate
Organophosphate Group 1B	Fenitrothion 1000	1.2 litres	12 ppm	3 months	✓	✓	✓	✓	X	✓	✓	X	✓	✓	\$0.42 per ton	No rotation required, use one as a mixing partner with K-Obiol or Conserve Plus
	Reldan	2 litres	10 ppm	1 Day	X	✓	✓	✓	X	✓	✓	X	✓	✓	\$0.75 per ton	
	Actellic	0.45 litres	4 ppm	1 Day	X	✓	✓	X	X	✓	✓	X	✓	✓	\$0.70 per ton	
Insect Growth Regulator Group 7A	Rizacon S-Methoprene IGR	0.2 litres	0.6 ppm	1 Day	✓	✓	✓	✓	Resistance in most areas	X	✓	✓	✓	✓	\$1 per ton	Only use now is on maize and other products not infested by Lesser Grain Borer
Organophosphate Group 1B Insect Growth Regulator Group 7A + Naturalyte Group 5	Conserve onfarm* Reldan, S-Methoprene IGR & Spinosad		Reldan 10 ppm Methoprene 0.6 ppm Spinosad 0.96 ppm	1 Day	X	✓	✓	✓	✓	✓	✓	✓	✓	✓	\$3.00 per ton	Pre mixed combination, has been discontinued, stock on run out
	Phosphine		1.5g/m3	3 days	✓	✓	✓	✓	Increasing resistance	✓	✓	✓	strong resistance through NSW / QLD	✓	\$0.15 - \$0.40 (price varies according to rate and type of phosphine used)	Fumigants, only to be used in grain bunkers and silos sealed to the Australian standard. Ensure adequate ventilation times as most port terminals test for residual gas
	Profume				✓	✓	✓	✓	✓	✓	✓	✓		\$2 - \$5 per ton for contractor		

\* Conserve On-farm + Conserve Plus is only available to growers storing their own grain, not available to accumulating businesses

Conserve Plus Grain Protector for accumulators is exclusive to GSS and may only be supplied to accredited customers who agree to meet our ISO certified Quality Assurance program.

Before applying any treatment, ensure you check the treatment is suitable for the intended market for the grain.

For more information on residue tolerances for domestic or international markets contact Grain Storage Solutions or check the Grain Trade Australia web page

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