



Oracle®

Product Overview

ORACLE® contains 17 g/L emamectin benzoate and is registered for the control of *Helicoverpa punctigera* and *H. armigera* and suppression of Green Mirid in Cotton.

* ORACLE® is an ideal choice for Insect Resistance Management and Integrated Pest Management strategies

- ORACLE® can provide residual activity against foliage-feeding pests for up to 10 days depending upon the rate used and conditions at application
- Emamectin benzoate is rated as "MODERATE" for its effect on beneficial insects#
- ORACLE® can be used effectively on all growth stages of cotton and is endorsed for use in stage 1, 2, 3 and 4 of the Cotton Pest Management Guide
- ORACLE® has an excellent fit in both Bollgard* II and conventional cotton crops.

Cotton Pest Management Guide 2014-15, (www.cottoncrc.org.au/industry/Publications)

Mode of Action

GROUP **6** INSECTICIDE

- ORACLE® is a Group 6 insecticide (a member of the 'mectin' group) and its mode of action is via activation of the chloride channel within the target insect's nervous system
- ORACLE® is taken into the plant via translaminar movement and forms a reserve of active ingredient protected from UV light and rain.

ORACLE® stops target pests from feeding within hours of application and from this time on pests will not damage the crop even though affected larvae may not die for a few days. The majority of ORACLE®'s activity is via stomach ingestion, an assessment after five days will give the best indication of ORACLE®'s overall performance.

Standard Recommendations

550 mL/Ha or 700 mL/Ha in Cotton + a non-ionic surfactant at recommended label rate.

Heliothis (*Helicoverpa armigera*, *Helicoverpa punctigera*)

Timing is important. For best results apply at or just prior to the anticipated time of hatching of *Helicoverpa* eggs as indicated by egg levels or scouting.



ORACLE® is highly effective against *Heliothis* but best results will be achieved where caterpillars are targeted at the newly hatched and neonate larvae stages



ORACLE® provides excellent suppression of Green Mirid. Ideal timing is to target nymph stages



As earlier larval stages are easier to control, DO NOT target larvae larger than 5 mm (very small to small). Large larvae and larvae feeding within bolls and squares may not be controlled. Larvae must feed on treated areas in order to achieve effective control. Where high egg lays occur the addition of an ovicide is recommended. Use the lower rate on light infestations. Make no more than 3 applications per season.

Green Mirid (*Creontiades dilutes*) - Suppression only

Apply to developing Green Mirid populations that are predominantly nymphs. Maximum effect is not achieved until 5 to 7 days after application. Use the higher rate on heavier populations.

DO NOT apply to Cotton under visible stress.

Application

ORACLE® is not systemic. To be effective, ORACLE® requires thorough spray coverage. Ensure that equipment is properly calibrated to give an even distribution at the correct volume.

Ground Application: Apply in at least 80 L spray volume per hectare.

Air Application: Apply in at least 20 L spray volume per hectare.

Resistance Management

ORACLE® should be used in accordance with resistance management guidelines. Some naturally occurring insect biotypes resistant to ORACLE® and other Group 6 insecticides may exist through normal genetic variability in any insect population. Whilst levels are low some resistant individuals have already been found through resistance monitoring programs. Resistant individuals can eventually dominate the insect population if ORACLE® or other Group 6 insecticides are used repeatedly.

Adama encourages strict adherence to industry resistance management guidelines as outlined in the IRMS.



Features and Benefits

Features	Benefits
Highly effective for managing <i>Helicoverpa</i> Spp. and Green Mirid	Excellent tool for use in both conventional and Bollgard* II Cotton crops
Soft on beneficial insects	Allows growers and agronomists to maximise the benefits of an IPM program
Translaminar movement within the leaf	Controls pests on both sides of the leaf where good coverage is not always possible and allows a reserve of active ingredient to be stored without degradations by UV light or washed off by rain.
Extended residual control.	Reduced need to retreat and reduced crop damage.

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