



SAFEGUARD YOUR BEAN CROPS FROM POD SUCKING PESTS



Shield® is a highly effective systemic insecticide permitted* for use to control Green Vegetable Bugs and Redbanded Shield Bugs in Mung beans, Navy beans and Soybeans.

- Highly effective and economical.
- Acts through both ingestion and direct contact to stop pests feeding immediately.
- Flexible use rates – higher rates for heavy infestations and longer control.
- Shield contains 200 g/L clothianidin, a Group 4A neonicotinoid group insecticide.
- Shield is also registered for use in cotton for Cotton aphid, Green mirid, Jassids, Green vegetable bug and in Sugarcane for soil application against cane grubs.

* Shield is approved for control of Green Vegetable Bug and Redbanded Shield bug in Mung beans, Navy beans and Soybeans under APVMA PERMIT NUMBER – PER86221. This permit is in force until 31st October 2024.



Directions For Use

Crop	Pest / Disease	Rate
Mung beans, Navy beans	Redbanded shield bug (<i>Piezodorus oceanicus</i>) Green vegetable bug (<i>Nezara viridula</i>)	125-375 mL/ha Plus MAXX Organosilicone Surfactant™ at 2 mL/L of water
Soybeans, excluding Haymaker variety		125-250 mL/ha Plus MAXX Organosilicone Surfactant at 2 mL/L of water



Critical Use Comments

- **Mung beans & Navy beans:** Monitor crops and commence applications once local thresholds are reached. Continue to monitor crops.
- **Soybeans:** Commence treatment at early pod fill when crop assessments indicate pest population is at a damaging level. Continue to monitor crops.
- Apply a maximum two (2) foliar treatments per crop with a minimum re-treatment interval of 7 days between consecutive applications.
- Use the higher rate when heavy infestation is expected, and longer control is required.
- Treated insects may remain in the crop 2-3 days after application, however, they will have ceased feeding.
- Apply using minimum spray volumes of 100 L/ha for ground application and 30 L/ha for aerial application.
- Apply using not smaller than medium sized spray droplets.
- DO NOT apply to crops when in flower to avoid disruption to pollinators.
- Follow all *Spray Drift Restraints and Buffer Zones*. Refer to permit for required downwind buffer zones.
- Effective control of insect pests requires an integrated approach. Refer to CropLife Australia *Insecticide Resistance Management Strategies*.

Withholding Periods

- Harvest: Do not harvest for 21 days after application.
- Grazing: Do not graze or cut for stock food.



Green vegetable bug
(*Nezara viridula*)



Redbanded shield bug
(*Piezodorus oceanicus*)

Green vegetable bug (GVB) and Redbanded shield bug (RBSB) both have relatively widespread distribution and the ability to quickly reproduce, and to rapidly cause damage. These bugs are considered some of the most damaging sucking pests of Australian pulse crops with host crops including soybeans, mung beans, navy beans, adzuki beans, cotton, sunflower, maize, peanuts and many horticultural crops. Generally these pests tend to be more widespread in warmer areas and typically infest summer legume crops at flowering time when they commence feeding.

IPM

The use of IPM techniques are advised and Sumitomo recommend Shield be used in an integrated approach which takes into account the potential for natural predators to help manage numbers of these pests. Several natural predators can help control GVB and RBSB, including the parasitic wasp *Trissolcus basalis* which parasitises eggs turning them black. Nymphs can be attacked by ants, spiders or predatory bugs, while larger instars and adults are parasitised by the Tachinid flies.

Pest Monitoring

Pulse crops should be monitored twice weekly from budding until prior to harvest. Ideally, sample crops mid-morning when target pests are most active and likely to be in the top of the canopy. The most efficient method of sampling for pod sucking bugs is a beat sheet.

For further information on Sumitomo **Shield Systemic Insecticide**, please contact:

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