

CAUTION

KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



Tracer*

Naturalyte* Insect Control

ACTIVE CONSTITUENT: 480 g/L SPINOSAD

GROUP 5A INSECTICIDE

For the control of heliothis in cotton and various caterpillar species (heliothis & loopers) in chickpeas and other pulses, soybeans and sorghum as *per* the Directions for Use.

SHAKE WELL BEFORE USE.

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APVMA Approval No: 49066/0704

DIRECTIONS FOR USE

- **DO NOT** apply using Ultra Low Volume methods.
- **DO NOT** apply more than 3 applications to any COTTON crop in any one season.
- **DO NOT** apply more than TWICE to each of the following crops in any one season: CHICKPEA & OTHER PULSES, SOYBEAN and SORGHUM. Product can be applied either twice to the crop during flowering or once at flowering and once up to 14 days before harvest.

CROP	PEST	RATE	CRITICAL COMMENTS
Chickpeas	Heliethis (<i>Helicoverpa</i> spp.)	75 - 100 mL/ha	Use the low rate against light infestations of newly emerged larvae and higher rates when infestation is heavy and/or larvae are more advanced. Note: Entrenched larvae, or those not actively feeding, will not be controlled.
Cotton	Bollworm (<i>Helicoverpa armigera</i>) Native budworm (<i>Helicoverpa punctigera</i>)	150 - 200 mL/ha	Use the low rate against light infestations and higher rates when infestation is heavy (see <i>Guidelines</i> below). Carefully monitor eggs and larvae of <i>Helicoverpa</i> species by regular field scouting. Target sprays against brown eggs and newly hatched very small larvae. <i>Guidelines:</i> Light infestation: Use 150 mL/ha when infestation of <i>Helicoverpa</i> species is less than 10 eggs and 2 larvae/m of row. Heavy infestation: Use 200 mL/ha when infestation of <i>Helicoverpa</i> species exceeds 10 eggs and/or 2 larvae per metre of row. Note: Larvae larger than 8 mm in length, and larvae feeding within bolls and squares may not be controlled.
Pulses (including but not limited to azuki beans, cowpeas, faba beans, field peas, lentils, lupins, kidney beans, mungbeans, navy beans) Sorghum Soybeans	Heliethis (<i>Helicoverpa</i> spp.) Loopers (<i>Chrysodeixis</i> spp.) Soybean looper (<i>Thysanoplusia orichalcea</i>)	100 - 150 mL/ha	Use the low rate against light infestations and higher rates when infestation is heavy (see <i>Guidelines</i> : below). Carefully monitor eggs and larvae of pests by regular field scouting. To achieve best results target sprays against brown eggs and newly hatched, very small larvae. <i>Guidelines:</i> Light infestation: Use 100 mL/ha when infestation of <i>Helicoverpa</i> species is less than 10 eggs and 2 larvae/m of row (pulse crops) or less than 2 larvae per head (sorghum) Heavy infestation: Use 150 mL/ha when infestation of <i>Helicoverpa</i> species exceeds 10 eggs and/or 2 larvae per metre of row (pulse crops) or 2 larvae per head (sorghum). For Southern Australia: If determining insect thresholds by sweep netting, follow the recommendations of your local Department of Agriculture or equivalent advice. Note: Entrenched larvae, or those not actively feeding, will not be controlled.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER, CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS

- **COTTON:**
DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION.
DO NOT ALLOW LIVESTOCK TO GRAZE COTTON CROP, STUBBLE OR GIN TRASH WHICH HAS BEEN TREATED WITH Tracer Naturalyte Insect Control
- **CHICKPEAS & OTHER PULSES, SOYBEANS & SORGHUM:**
DO NOT HARVEST FOR 14 DAYS AFTER THE LAST APPLICATION.
DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 14 DAYS AFTER THE LAST APPLICATION

EXPORT OF LIVESTOCK

When Tracer Naturalyte Insect Control is used as directed and the above WHPs for grazing and cutting for stockfeed are observed, livestock fed treated commodities are considered acceptable to slaughter for export. However export requirements are subject to change. Consult your exporter for updated information about specific export market requirements before feeding treated animal feeds to livestock.

GENERAL INSTRUCTIONS

- Tracer Naturalyte Insect Control is formulated as a suspension concentrate that is suitable for application in water by aircraft or ground rig. Tracer Naturalyte Insect Control may be used in integrated pest management (IPM) and conventional insect control programmes in cotton.
- Tracer Naturalyte Insect Control works by both contact and ingestion. Exposed larvae stop feeding almost immediately but can take up to 3 days to die.

MIXING

- Agitate or shake the container immediately prior to use.
- Half fill the spray tank and add the appropriate amount of accurately measured Tracer Naturalyte Insect Control, then complete filling the tank.
- Ensure thorough agitation by mechanical or hydraulic action at all times during mixing and application.
- Use only clean water within the range pH 5-9 to dilute Tracer Naturalyte Insect Control.

STORAGE OF DILUTED SPRAY MIX

- Whenever possible use the spray mix immediately after it is prepared. However, when weather conditions or mechanical breakdown prevent immediate use, the spray mix may be stored for up to 72 hours without loss of activity.
- The spray mix should be agitated thoroughly by mechanical or hydraulic action at regular intervals during storage to prevent sediments forming. Ensure that the stored spray mix is thoroughly agitated at least once every 8 hours.
- The spray mix must be stored out of direct sunlight.

APPLICATION

- Thorough coverage of the crop is essential. For optimum results follow the application specifications listed below:

Ground rig:

- Apply a minimum spray volume of 50 - 100 L/ha of water.
- Ensure thorough coverage of the target area.

Aerial spraying:

- Apply in a minimum of 30 L/ha of water.
- Use nozzle configurations which produce droplets with a volume median diameter (VMD) of 150 - 250 microns. Under conditions of low humidity and high temperatures adjust spray volume and droplet size upward. If possible, avoid spraying when the temperature exceeds 28°C or when the relative humidity is less than 40%. Best results are achieved when the temperature is below 24°C and the relative humidity is greater than 65%.

- **DO NOT** apply when conditions are unsuitable for water-based spray applications. Avoid high temperature, strong winds, inversion conditions, imminent rain or any other conditions that may reduce the quality of spray coverage or result in drift from the area to be treated.
- A strategy to minimise spray drift should be employed at all times when aerially applying sprays to, or near, sensitive areas. Such a strategy is illustrated by the cotton industry's Best Management Practice Manual.

RAINFASTNESS

- Rain can wash Tracer Naturalyte Insect Control from treated plant surfaces and result in reduced insect control. Avoid making spray applications when rain is expected within 2 hours of spraying.

COMPATIBILITY

Tracer Naturalyte Insect Control is compatible with a number of insecticides, fungicides, spreaders, adhesives & wetting agents but not with mineral spray oils. Do not mix product concentrates together but add each to the spray tank separately. As formulations of other manufacturers' products are beyond the control of Dow AgroSciences Australia Ltd, all mixtures should be tested prior to mixing commercial quantities. As changes in climatic conditions can alter the sensitivity of plants to mixtures of sprays, Dow AgroSciences cannot be responsible for the behaviour of such mixtures.

CLEANING SPRAY EQUIPMENT

After using Tracer Naturalyte Insect Control empty the tank and completely drain the system. Rinse the tank, pumps, lines, hoses, filters and nozzles by circulating clean water through the system. Drain and repeat the rinsing procedure twice.

INSECTICIDE RESISTANCE WARNING

GROUP 5A INSECTICIDE

For insecticide resistance management Tracer Naturalyte Insect Control is a Group 5A insecticide. Some naturally occurring insect biotypes resistant to Tracer Naturalyte Insect Control and other Group 5A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if Tracer Naturalyte Insect Control or other Group 5A insecticides are used repeatedly. The effectiveness of Tracer Naturalyte Insect Control on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Dow AgroSciences accepts no liability for any losses that may result from the failure of Tracer Naturalyte Insect Control to control resistant insects.

PROTECTION OF LIVESTOCK

- Dangerous to bees. Avoid direct application or drift of the spray mix onto beehives.
- Bees foraging in sprayed crops will not be affected once the spray deposit has dried.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

- **DO NOT** allow the product or used containers to enter dams, ponds, waterways or drains.
- **DO NOT** allow irrigation water from treated paddocks to enter adjacent pastures, crops or water supplies.
- **DO NOT** apply in strong winds, inversion conditions or any other conditions that may result in drift onto adjacent pastures, crops or water supplies.
- **IT IS ESSENTIAL** to retain the first flush of tailwater/stormwater in the tailwater dam after application.

PROTECTION OF NON TARGET BENEFICIAL INSECTS

Beneficial insects contribute to control of pest outbreaks. Applications of Tracer Naturalyte Insect Control are unlikely to affect lacewings (*Chrysopa* sp.), predatory bugs (*Geocoris*, *Orius* and *Nabis* spp.), spiders and most species of ladybird beetles (*Coccinella*, *Diomus* and *Harmonia* spp.). However some species of beneficial insects are sensitive to Tracer Naturalyte Insect Control and its use may temporarily reduce populations of parasitoid wasps (especially *Trichogramma* spp.), ants, some beetles and tachinid flies. This may lead to some disruption of IPM systems based on these species, but generally populations will recover.

STORAGE AND DISPOSAL

- Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.
- Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point.
- If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

SMALL SPILL MANAGEMENT

Clean up small spill by applying absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material for disposal when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see Storage and Disposal Section). If necessary wash the spill area with an alkali detergent and water and absorb as above the wash liquid for disposal.

SAFETY DIRECTIONS

- May irritate the eyes and skin.
- Avoid contact with eyes and skin.
- When preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves.
- After each day's use, wash gloves and contaminated clothing.
- Wash hands after use.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone: 13 11 26).

MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet for Tracer Naturalyte Insect Control which is available from Dow AgroSciences on request. Call Customer Service Toll Free on 1-800 700 096.

NOTICE:

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use.

No warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of the product contrary to label instructions, or under off-label permits not endorsed by Dow AgroSciences or under abnormal conditions.

Made in New Zealand

IN A TRANSPORT
EMERGENCY ONLY
DIAL 000
FOR POLICE OR
FIRE BRIGADE

**EMERGENCY RESPONSE
(ALL HOURS)**
RING FROM ANYWHERE
IN AUSTRALIA
1-800 033 882
(LOCAL CALL FEE ONLY)



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