

CAUTION

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



Tracer* II

Naturalyte* Insect Control

ACTIVE CONSTITUENTS: 125 g/L SPINOSAD
457 g/L HYDROCARBON SOLVENT

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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DIRECTIONS FOR USE

DO NOT apply using Ultra Low Volume methods, except for COTTON.

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 STATE	RATE	CRITICAL COMMENTS
Chickpeas	Heliothis (<i>Helicoverpa</i> spp.)	300 - 400 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>)	600 - 800 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 600 mL/ha when infestation of <i>Helicoverpa</i> species is less than 10 eggs and 2 larvae/m of row. Heavy infestation: Use 800 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)	Heliothis (<i>Helicoverpa</i> spp.) Loopers (<i>Chrysodeixis</i> spp.) Soybean looper (<i>Thysanoplusia orichalcea</i>)	400 - 600 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 400 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 600 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.
Sorghum			
Soybeans			

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

WITHOLDING PERIOD

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 II 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 INSTRUCTION

- Tracer II Naturalyte Insect Control is formulated as an aqueous suspension emulsion in oil that is suitable for application by either Ultra Low Volume method (cotton only) or as a conventional application in water. Tracer II Naturalyte Insect Control may be used in integrated pest management (IPM) and conventional insect control programmes in crops.
- Tracer II 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 II Naturalyte Insect Control, then complete filling the spray 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, or DC-Tron® NR oil to dilute Tracer II 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 phase separation or 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

- **DO NOT** apply when conditions are unsuitable for water or oil 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.

Spray Volumes

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

Application in Water from the Ground or Air

- Apply a minimum spray volume of 50 L/ha by ground rig or 30 L/ha by aircraft.
- 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. Where possible, do not spray when the temperature exceeds 28°C or when the relative humidity is less than 40%.

Best results are achieved when the temperature is below 25°C and the relative humidity is greater than 65%.

Aircraft Ultra Low Volume Application (Cotton ONLY)

- Apply a minimum spray volume of 5 L/ha using DC-Tron NR oil as the carrier.
- Use Micronair AU5000 nozzles (or similar) with blade angles set to produce a droplet size of 100 micron VMD. Do not spray when the temperature exceeds 32°C or when the relative humidity is less than 40%.

RAINFASTNESS

- Rain can wash Tracer II Naturalyte Insect Control from treated plant surfaces and result in reduced insect control. Avoid making spray applications when rain is expected within 6 hours of spraying.

COMPATIBILITY

- Tracer II Naturalyte Insect Control is compatible with Pix® Plant Growth Regulator when applied as a water based spray.

INSECTICIDE RESISTANCE WARNING

GROUP 5A INSECTICIDE

For insecticide resistance management Tracer II Naturalyte Insect Control is a Group 5A insecticide.

Some naturally occurring insect biotypes resistant to Tracer II 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 II Naturalyte Insect Control or other Group 5A insecticides are used repeatedly. The effectiveness of Tracer II 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 II Naturalyte Insect Control to control resistant insects.

PROTECTION OF LIVESTOCK

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

PROTECTION OF WILDLIFE, FISH, CRUSTACEA AND THE 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 INSECTS

- Beneficial insects contribute to control of pest outbreaks. Applications of Tracer Naturalyte Insect Control are unlikely to affect lacewings (*Chrysopa* spp.), 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.

CLEANING SPRAY EQUIPMENT

- After using Tracer II 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.

STORAGE AND DISPOSAL

- Store in the closed, original container in a cool, well-ventilated area. Do not store for prolonged periods in direct sunlight.
- This container can be recycled if it is clean, dry, free of visible residues and has the **drumMUSTER** logo visible. Triple or pressure rinse container for disposal. Dispose of rinsate by adding to the spray tank. Do not dispose of undiluted chemicals on site. Wash outside of the container and the cap. Store cleaned container in a sheltered place with cap removed. It will then be acceptable for recycling at any **drumMUSTER** collection or similar container management site. The cap should not be replaced but may be taken separately. 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

- Will irritate the eyes and skin.
- Avoid contact with eyes and skin.
- Repeat exposure may cause allergic disorders.
- When preparing spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and a face shield.
- When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat, and elbow-length PVC gloves.
- If product on skin, immediately wash area with soap and water.
- If product in eyes, wash it out immediately with water.
- After each day's use wash gloves, face shield and contaminated clothing.

FIRST AID

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

MATERIAL SAFETY DATA SHEET

Additional information is listed on the Material Safety Data Sheet for Tracer II Naturalyte Insect Control which is available from Dow AgroSciences on request.

Call Customer Service Toll Free on 1-800-700 096.

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Made in New Zealand

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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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