

eChem

Indox 150

INSECTICIDE

DIRECTIONS FOR USE

Restraints

DO NOT apply if rain is expected within 2 hours of application, or if heavy dew is present on crops.

DO NOT apply when wind speed is less than 3 and greater than 20 kilometres per hour or during weather conditions when surface temperature inversions can develop.

DO NOT apply within 50 m (aerial application) or 20 m (ground application) when there are livestock, pasture or any land that is producing feed for livestock downwind from the application area.

COTTON:

DO NOT apply more than three (3) applications per field in any one cotton growing season and no more than two (2) consecutive sprays per field per season. Applications must be a minimum of seven days apart.

ADZUKI BEANS, CHICKPEAS, FABA BEANS, MUNGBEANS, SOYBEANS:

DO NOT apply more than one (1) application per field for the crops entire growth cycle.

ENSURE YOU READ THE PROTECTION STATEMENTS BEFORE APPLYING THE PRODUCT.

CROP	INSECT	STATE	RATE	CRITICAL COMMENTS
Cotton	Cotton bollworm (<i>Helicoverpa armigera</i>), Native budworm (<i>H. punctigera</i>)	NSW, NT, Qld, WA only	650 mL/ha or 850 mL/ha	Use the lower rate of eChem INDOX 150 Insecticide when: (1) <i>H. armigera</i> specific field levels are less than or equal to 60 % prior to treatment application AND (2) egg and larvae pressure ARE AT 5 – 10 brown eggs and 2 very small (first instar) or small larvae (second instar) per 10 cotton terminals AND (3) where preservation of beneficial insects is desirable. Use the higher rate of eChem INDOX 150 Insecticide when: (1) <i>H. armigera</i> specific field levels are greater than 60 % prior to treatment application AND (2) egg and larvae pressure ARE AT 5 – 15 brown eggs and 2 very small (first instar) or small larvae (second instar) per 10 cotton terminals AND (3) where preservation of beneficial insects is desirable.
	Cotton bollworm (<i>Helicoverpa armigera</i>), Native budworm (<i>H. punctigera</i>)		650 mL/ha + 2 L/ha Ovasyn* insecticide (or 200 g/L Amitraz EC formulation)	Use eChem INDOX 150 Insecticide + Ovasyn* or 200 g/L Amitraz EC when: (1) egg and larvae pressure ARE AT 15 – 20 brown eggs and 2 very small (first instar) or small larvae (second instar) per 10 cotton terminals AND (2) where limited preservation of beneficial insects is required.
	Green mirid (<i>Creontiades dilutus</i>)		650 mL/ha or 850 mL/ha or 300 or 400 mL/ha + salt (NaCl) at 5 g/L spray volume by ground (100 L/ha) or 10 g/L spray volume by air (30 L/ha)	Target nymphs and/or adults when they reach the economic spray threshold. Use 650 or 850 mL/ha when controlling <i>Helicoverpa</i> spp. AND green mirids. Refer <i>Heliothis</i> recommendations. Use 300 or 400 mL/ha + salt when controlling green mirids ONLY. Use the higher rate on infestations exceeding economic spray threshold levels and/or large canopy crops. Under high populations suppression only may be observed. Note: eChem INDOX 150 Insecticide has limited residual activity in controlling new infestations of mirids (either new hatchlings of nymphs or influx of adults) post-spray.

CROP	INSECT	STATE	RATE	CRITICAL COMMENTS
Chickpeas, Faba beans	Cotton bollworm (<i>H. armigera</i>), Native budworm (<i>H. punctigera</i>)	All States	300 mL/ha	Target brown eggs and hatchling (neonates or first instar) to small larvae (second instar) when they reach the economic spray threshold and before they become entrenched in flowers (particularly relevant to Faba beans) or pods.
Adzuki beans, Mungbeans, Soybeans	Cotton bollworm (<i>H. armigera</i>), Native budworm (<i>H. punctigera</i>) Mirid complex: Green mirid (<i>C. dilutus</i>), Brown mirid (<i>C. pacificus</i>), Crop mirid (<i>Sidnia kingbergii</i>), Yellow mirid (<i>Campylomma liebknechti</i>) Soybean looper (<i>Thysanoplusia orichalcea</i>) Red shouldered leaf or Monolepta beetle (<i>Monolepta australis</i>) Soybeans only	All States	400 mL/ha 400 mL/ha + salt (NaCl) at 5 g/L spray volume by ground (100 L/ha) or 10 g/L spray volume by air (30 L/ha). 200 mL/ha 200 mL/ha	Target brown eggs and hatchling (neonates or first instar) to small larvae (second instar) when they reach the economic spray threshold and before they become entrenched in flowers and pods. Target nymphs and/or adults when they reach the economic spray threshold. Under high populations suppression only may be observed. Please note: eChem INDOX 150 has limited residual activity in controlling new infestations of mirids (either new hatchlings of nymphs or influx of adults) post spray. Target hatchling (neonates or first instar) to small larvae (second instar) when they reach the economic spray threshold. Target adult beetles when they reach the economic spray threshold. Ensure thorough spray coverage.

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

WITHHOLDING PERIODS

HARVEST

COTTON: DO NOT HARVEST FOR 28 DAYS AFTER APPLICATION.

ADZUKI BEANS, CHICKPEAS, FABA BEANS, MUNGBEANS, SOYBEANS: DO NOT HARVEST FOR 21 DAYS AFTER APPLICATION.

GRAZING

COTTON: DO NOT ALLOW LIVESTOCK TO GRAZE CROPS, COTTON STUBBLE OR GIN TRASH TREATED WITH ECHEM INDOX 150 INSECTICIDE.

ADZUKI BEANS, CHICKPEAS, FABA BEANS, MUNGBEANS, SOYBEANS: DO NOT GRAZE OR CUT FOR STOCK FOOD FOR 21 DAYS AFTER APPLICATION.

LIVESTOCK DESTINED FOR EXPORT MARKETS

The label withholding period for grazing only applies to stock slaughtered for the domestic market. Some export markets apply different standards. To meet these standards, ensure that the Export Slaughter Interval or the Export Grazing Intervals is observed before stock are sold or slaughtered.

EXPORT SLAUGHTER INTERVAL (ESI): 28 DAYS

Livestock that have been grazing on or fed treated crops and/or over-sprayed should be placed on clean feed for 28 days (4 weeks) prior to export slaughter.

GENERAL INSTRUCTIONS

eChem INDOX 150 Insecticide is an emulsifiable concentrate formulation.

eChem INDOX 150 Insecticide should be applied after careful field monitoring of pest populations of eggs and larvae to determine the need for application, the correct timing of the initial application and of any subsequent applications. For Cotton only, subsequent applications are dependent on economic thresholds, as well as the growth rate of new unprotected cotton terminals.

For *Helicoverpa* species, spray applications should be timed to coincide with egg hatching and before larvae are entrenched in protected feeding sites.

eChem INDOX 150 has been specifically designed for use in Integrated Pest Management schemes. The active ingredient, indoxacarb enters larvae primarily by ingestion of treated foliage, or through penetration of the insect cuticle. **After ingesting indoxacarb, the larvae cease feeding and die three to five days later.** eChem INDOX 150 does not give traditional larval “knockdown” control but controls nominated larvae species giving superior:

- square, flower and boll protection in cotton OR

- foliage, flower and pod protection in Chickpea, Faba beans, Mungbeans or Soybeans.

each days use, wash gloves and contaminated clothing.

washable hat and elbow-length PVC gloves. Wash hands after use. After overalls buttoned to the neck and wrist (or equivalent clothing), a container, preparing spray and using prepared spray, wear cotton Sensitive workers should use protective clothing. When opening the with eyes and skin. Repeated exposures may cause allergic disorders.

Harmful if swallowed. Will irritate the eyes and skin. Avoid contact

SAFETY DIRECTIONS

that may cause spray to drift onto nearby non-target plants/crops, that NOT apply under weather conditions, or from spraying equipment, cropland or pastures. Refer to the Product Use section above and

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

For returnable containers, empty contents fully into application equipment. Close all valves and return to point of supply for refill or

regulation. DO NOT burn empty containers.

roofs, in compliance with relevant local, State or Territory government

up for this purpose clear of waterways, desirable vegetation and tree

500 mm below the surface in a disposal pit specifically marked and set

waste management facility is not available buy the empty packaging

packaging to an approved waste management facility. If an approved

point. If not recycling, break, crush or puncture and deliver empty

cap and return clean container to recycler or designated collection

DO NOT dispose of undiluted chemicals on site. If recycling, replace

pressure rinse containers before disposal. Add rinsings to spray tank.

NOT store for prolonged periods in direct sunlight. Triple or preferably

Store in the closed, original container in a cool, well-ventilated area. DO

STORAGE AND DISPOSAL

laundried after each day's use.

wrists, avoid aerial application where possible. Observe the buffer zones

prior entry is necessary, wear cotton overalls buttoned to the neck and

DO NOT allow entry into treated areas until spray has dried. When

RE-ENTRY PERIOD

Assess the treatment area before application to identify animal exposure

risks. Avoid aerial application where possible. Observe the buffer zones

drift onto pasture or fodder crops that livestock may potentially graze or

may be cut for livestock feed seek advice from eChem.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND

ENVIRONMENT

DO NOT contaminate streams, rivers or waterways with the chemical or

equipment to reduce risk of depositors forming that might become

difficult to remove. Drain spray equipment into a disposal pit designed

for this purpose. Thoroughly rinse sprayer and flush hoses, boom, and

engineering controls such as vehicles with enclosed cabs.

DO NOT use human flaggers/markers unless they are protected by

PRECAUTION

spray drift during application.

the cotton industry's Best Management Practice Manual to manage

ladybirds, ants and pirate bugs, but populations quickly recover.

MAY temporarily reduce populations of predatory beetles, transverse

applications are unlikely to affect spiders and lacewings. Applications

contribute to control of secondary pest outbreaks. eChem INDOX 150

PROTECTION OF NON-TARGET BENEFICIAL INSECTS

to enter adjacent paddocks, crops or water supplies.

drift onto pasture or fodder crops that livestock may potentially graze or

may be cut for livestock feed seek advice from eChem.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND

ENVIRONMENT

When the addition of salt is indicated in the Directions for Use table,

Table

or cooking salt, Pool salt, or salt approved for use in livestock feed e.g.

Chesteram® RAM (No. 2) Dried Fine Salt, Olsson's Klin Dried Course

Refined Salt.

Only apply product using clean, well maintained equipment.

Immediately following application, thoroughly clean all spray

equipment to reduce risk of depositors forming that might become

difficult to remove. Drain spray equipment into a disposal pit designed

for this purpose. Thoroughly rinse sprayer and flush hoses, boom, and

nozzles with clean water. Fill the sprayer with clean water and household

ammonia (one litre of 3 % active for every 100 L of water). Flush hoses,

boom, and nozzles. Turn off boom and top off the tank with clean water.

Flush through the spraying system for at least 15 minutes. Flush

the hoses, boom and nozzles and drain the tank. Remove and clean

nozzles, screens, and strainers in a bucket of fresh ammonia and water.

Thoroughly rinse the sprayer, hoses, boom and nozzles with clean water

several times. Clean all other associated contaminated application

Dangerous to bees. DO NOT apply when bees are actively foraging.

Direct application or drift of the spray mix onto beehives. After the

PROTECTION OF LIVESTOCK

equipment.

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quantity of the desired tank mix and observe possible adverse changes

and new ones introduced. It is recommended that users pre-mix a small

quantity of the desired tank mix and observe possible adverse changes

ultra low volume (ULV) formulations or the following foliar fertilisers:

is compatible with Ovasyn® insecticide, Amitraz 200 g/L EC formulations

Label instructions for all products must be observed eChem INDOX 150

COMPATIBILITY:

methods.

DO NOT apply eChem INDOX 150 using Ultra Low Volume (ULV)

to ASAE S572 definition for standard nozzles. A spray drift minimisation

conventional hydraulic nozzles) set to medium spray quality according

of 30 L/ha with nozzles (e.g. Micronaire® rotary atomisers, CF nozzles or

accurately calibrated equipment. Apply a minimum total spray volume

Aerial application

crop row as the plant size increases.

PRESSURE. For band spraying, increase the number of fan nozzles per

and may increase drift potential. WHEN HIGHER FLOW RATES ARE

NEEDED, USE A HIGHER-CAPACITY NOZZLE INSTEAD OF INCREASING

reduces droplet size, DOES NOT improve canopy penetration

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APVMA Approval No.: 82478/105848

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

Indox 150

INSECTICIDE

ACTIVE CONSTITUENT: 150 g/L INDOXACARB

GROUP 22A INSECTICIDE

For the control of various species of insect pests in Adzuki beans, Chickpeas, Cotton, Faba beans, Mungbeans and Soybeans as specified in the Directions for use table.

IMPORTANT: READ THIS LEAFLET BEFORE USING THIS PRODUCT

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