

INVADER-B-LOK™

Reg. No. / Nr L8585 Act No. 36 of 1947 / Wet Nr 36 van 1947

GROUP 1B INSECTICIDES

READ THE LABEL BEFORE USE | KEEP OUT OF REACH OF CHILDREN AND ANIMALS | STORE IN COOL, DARK, DRY PLACE

INVADER-B-LOK™ is a ready-to-use fruit fly bait station for the attraction and control of male Oriental fruit fly (*Bactrocera dorsalis*) on various crops. Compatible with integrated pest management (IPM).

Hazard Statements

Harmful if swallowed
May cause allergic reaction
Suspected of causing genetic defects
Suspected of causing cancer
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects



WARNING

Precautionary Statements

Wash thoroughly after handling
Do not eat, drink, or smoke when using this product
Avoid release into the environment
Wear protective gloves
Dispose of contents and container (according to the description in the related regulation)

Active Ingredient(s) / Aktiewe Bestandeel(e)

Methyl eugenol / Metiel eugenol 13.5 g per bait station / per lokstasie
Mercaptothion / Merkaptotioon 4.5 ml per bait station / per lokstasie

Net mass/volume

1 unit /
12 per pack

Netto massa/volume

FIRST AID

• IF ON SKIN: If skin irritation or rash occurs: Get medical advice / attention. • IF exposed or concerned: Call a POISON CENTRE or doctor / physician.

PEST	CROP	RATE/HECTARE	DIRECTIONS FOR USE
Oriental fruit fly (<i>Bactrocera dorsalis</i>)	All susceptible crops	10 to 12 bait stations per hectare. Replace every 6 weeks.	Hang within tree canopy; on shady side of tree, if no trees available place on a pole; at about 1.5m above the ground; evenly dispersed throughout treated area.



REGISTRATION HOLDER / REGISTRASIEHOUER

RIVER BIOSCIENCE (PTY) LTD | REG NO. 2003/022759/07 REG NR
PO BOX 20388, Humewood, 6013 | T: +27 41 492 4216
E: admin@riverbio.com | W: www.riverbioscience.co.za

Batch No.:

Date of Manufacture:



Expiry Date:

Shelf Life:

12 months from date of manufacture

UN NUMBER 3077

:Lot Nr.

:Datum van Vervaardiging

:Vervaldatum

:Raklewe



PLEASE SEE FULL LABEL FOR FURTHER DETAILS

2023.06.22 v1

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INVADER-B-LOK™ is 'n gereed-vir-gebruik vrugtevlug lokstasie vir die lok-en-beheer van mannetjie Oosterse vrugtevlug (*Bactrocera dorsalis*) op verskeie landbou gewasse. Verenigbaar met 'n geïntegreerde plaagbestuur (IPB).

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WARNINGS

- Harmful if swallowed
 - May cause allergic reaction
 - Suspected of causing genetic defects
 - Suspected of causing cancer
 - Very toxic to aquatic life
 - Very toxic to aquatic life with long lasting effects.
- Store away and prevent contamination of food, feed, drinking water, and eating utensils.
- **INVADER-B-LOK™** must be kept in a cool, dark, and dry place until use. **INVADER-B-LOK™** must be used within 12 months of manufacture or before the expiry date as indicated.

DISCLAIMER

ALTHOUGH THIS REMEDY HAS BEEN EXTENSIVELY TESTED UNDER A LARGE VARIETY OF CONDITIONS, THE REGISTRATION HOLDER DOES NOT WARRANT THAT IT WILL BE EFFECTIVE UNDER ALL CONDITIONS, AS THE ACTION AND EFFECT THEREOF MIGHT BE AFFECTED BY FACTORS SUCH AS ABNORMAL CLIMATIC AND STORAGE CONDITIONS AND THE OCCURRENCE OF RESISTANCE OF THE PEST AGAINST THE REMEDY CONCERNED AS WELL AS THE METHOD, TIME AND ACCURACY OF APPLICATION. FURTHERMORE, THE REGISTRATION HOLDER DOES NOT ACCEPT RESPONSIBILITY FOR DAMAGE TO CROPS, VEGETATION, THE ENVIRONMENT NOR HARM TO MAN OR ANIMAL. NEITHER DOES THE REGISTRATION HOLDER ACCEPT RESPONSIBILITY FOR LACK OF PERFORMANCE OF THE REMEDY CONCERNED, DUE TO FAILURE OF THE USER TO FOLLOW THE LABEL INSTRUCTIONS, NOR TO THE OCCURRENCE OF CONDITIONS WHICH COULD NOT HAVE BEEN FORESEEN IN TERMS OF THE REGISTRATION. CONSULT THE SUPPLIER IN THE EVENT OF ANY UNCERTAINTY.

PRECAUTIONS

- Wash thoroughly after handling.
 - Do not eat, drink, or smoke when using this product.
 - Avoid release into the environment.
 - Wear protective gloves.
 - Dispose of contents and container (according to the description in the related regulation).
- Wear rubber / latex gloves while handling the product.
- Do not eat, drink, or smoke whilst handling the product not before hands.
- Prevent contamination of food, feeds and drinking water.
- Do not leave used blocks in the orchard or any other place.
- Order on the number of blocks that will be used in the coming season.
- Destroy empty packaging and do not use for any other purpose.
- Destroy used blocks by burning, once removed from the orchard.

RELEVANT SUBSTANCES

Substance	CAS Number	Content (%)	Function
Malathion / Mercaptothion	121-75-5	20%	Active
Methyl eugenol	93-15-2	60% - 70%	Attractant

FIRST AID

- IF ON SKIN: If skin irritation or rash occurs: Get medical advice/attention.
 - IF exposed or concerned: Call a POISON CENTRE or doctor / physician.
-
- Wash with soap and water after accidental skin contact.

DIRECTIONS FOR USE - Use only as directed

INVADER-B-LOK™ contains a highly specific attractant of natural origin, for several species of fruit fly, particularly of the genus *Bactrocera*. **INVADER-B-LOK™** does not harm bees, fish, birds, beneficial insects, or wildlife. **INVADER-B-LOK™** is fully compatible with an integrated pest management programme, as it is neither harmful nor disruptive to beneficial insects and other arthropods. There are no restrictions on using **INVADER-B-LOK™** up to the time of harvest, as **INVADER-B-LOK™** is not directly sprayed onto the fruit.

WHEN TO USE INVADER-B-LOK™

Monitoring for the Oriental fruit fly using **INVADER LURE™** dispensers in Sensus traps will indicate the presence of the fly in the general area. If such flies are detected in the general area, all susceptible crops on the entire farm must be treated. Government, Directorate Plant Health – Department of Agriculture, should be informed and the area quarantined as per the *Bactrocera dorsalis* action plan. Eradication of *Bactrocera dorsalis* should be initiated following the detection of a second *Bactrocera dorsalis* fruit fly in the delimiting survey area. The total area of coverage will depend on the extent of spread. For each *Bactrocera dorsalis* fruit fly find, the area under eradication will be 25km² surrounding the trap site. Duration of eradication measures should be planned for at least 2 generations of *Bactrocera dorsalis* (generation estimated based on local climatic conditions but generally should be estimated for about 8 weeks). Trapping to verify eradication should continue for at least one *Bactrocera dorsalis* generation (generally 4 weeks) after eradication measures have stopped.

Treatments must continue throughout the year, even when trees are not bearing fruit. Treatment must continue until the Oriental fruit fly has been eradicated from the general area, or indefinitely, if eradication is not achieved. In order to optimise the chances of eradication being achieved, **INVADER-B-LOK™** must be used in combination with a protein-hydrolysate based method for controlling the female Oriental fruit fly.

APPLICATION INSTRUCTIONS

INVADER-B-LOK™ must be dispersed evenly at a rate of ten to twelve (10 or 12) bait stations per hectare of susceptible crop. Bait stations must be hung on a branch within the canopy of the tree, on the shady side of the tree, at a height of about 1.5m above the ground.

If no trees are available, hang the block on a pole 1.5 m above ground. INVADER-B-LOK™ bait stations must be replaced every six weeks.

RECOMMENDATIONS

PEST	CROP	RATE/HECTARE	REMARKS
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