

GENERAL INSTRUCTIONS

BioAttract is a combined attractant and feeding stimulant for use in management of *Helicoverpa armigera*, *Helicoverpa punctigera*, armyworms, cutworms and certain other moths. **BioAttract does not contain an insecticide (insecticide sold separately).** Use of this product without an insecticide or with an ineffective insecticide (e.g. by virtue of repellency or resistance) could increase the insect pest problem within the crop. If there is uncertainty about the efficacy of an insecticide, conduct a small scale test before applying the product to your crop. BioAttract does not control eggs or larvae. Do not let prepared spray solution remain in spray tanks for more than 6 hours.

COMPATIBILITY

Compatible insecticides with adulticidal action suitable for 'attract and kill' applications include the following fast acting insecticides: Larvin 375 (thiodicarb), Lannate or Marlin (methomyl) and Bugmaster (Carbaryl). Slow acting insecticides such as Tracer Naturalyte (spinosad), Agrimec (abamectin) and Affirm (emamectin benzoate) may be used in conjunction with fast acting insecticides in BioAttract to assist in resistance management but should not be used alone (See Protection of livestock). Use only those insecticides registered for the particular pest/crop combination and use at the label rate. DO NOT use BioAttract with synthetic pyrethroids, chlorpyrifos *Helicoverpa* NPV or *Bacillus thuringiensis*. Observe resistance management guidelines where these apply.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT

DO NOT contaminate streams, rivers, waterways with the product or with used containers.

DO NOT apply under wet weather conditions or from spray equipment that may cause drift onto adjacent areas, particularly wetlands, water bodies and watercourses.

PROTECTION OF LIVESTOCK

BioAttract may be a bee hazard when used in combination with insecticides. Do not apply when bees are active in the crop. Always use BioAttract in combination with fast knockdown insecticides to prevent any scout bees feeding on the bait from returning to the hive.

DO NOT allow access of livestock to crops treated with 'BioAttract' for 21 days after application.

Read and comply with the warning statements on the label of the insecticides used with this product.

STORAGE AND DISPOSAL

Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Empty contents fully into application equipment. If BioAttract is to be stored for longer than 12 months, it should be held under refrigeration at about 5°C. Triple rinse or preferably pressure rinse containers before disposal. Add rinsings to application equipment. DO NOT dispose of undiluted chemical on site. If recycling, replace cap and return 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 500mm 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.

SAFETY DIRECTIONS

Do not apply when workers are present in field. Mark treated rows and observe re-entry periods consistent with the insecticide used in inter-row spaces adjacent to treated rows.

Observe clean up procedures consistent with the insecticide used. Refer to MSDS for further information.

FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre - Phone 131126 (Australia).

MSDS

For further information, refer to the Material Safety Data Sheet.

LIABILITY OF BIOGLOBAL LTD

The effectiveness of this product in managing insect pests depends upon various factors present during and after application and upon the skill and judgement of the user. Bioglobal Ltd does not accept any liability for harm or damage resulting from: (i) this product or its use; or (ii) the purchaser acting on advice given in good faith by any representative of the company unless the product itself can be shown not to comply with the specifications on the label and damage results from that non-compliance. If these conditions are unacceptable to the purchaser, the goods should be returned unopened within 7 days for a refund of the purchase price.

BioAttract is a registered trade mark of Bioglobal Ltd.

BioAttract[®]



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

BioAttract[®]

Sprayable kairomone bait for management of adult *Heliothis (Helicoverpa armigera and Helicoverpa punctigera)* and Armyworms (*Mythimna convecta, Persectania ewingii, Spodoptera exempta*) in cotton, grain legumes, sorghum, maize and cereal crops

Active Constituents:

25g/L Kairomone Mixture
625g/L Feeding Stimulant

Contents:

10 Litres

Manufactured by:

BIOGLOBAL LTD

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**BIO
GLOBAL**

DIRECTIONS FOR USE:

Crops	Pest	Application Rate	Critical Comments
Cotton	Adults of the following species: <i>Heliothis (Helicoverpa armigera)</i> Native budworm (<i>Helicoverpa punctigera</i>) Armyworms (<i>Mythimna convecta, Persectania ewingii, Spodoptera exempta</i>) Cutworms (<i>Agrotis spp.</i>)	UNDILUTED Apply undiluted mixture at the rate of 1-2 litres per 100 metres of row.	'BIOATTRACT AND KILL' TREATMENT Add to an appropriate volume of water with agitation. Combine with an insecticide that has adulticidal action registered for control of <i>Heliothis</i> on cotton and grain legumes. Ensure that the amount of product used complies with the rate recommended on the label for the area actually treated. Contact your local distributor or manufacturer for information on compatibility of commercial formulations with BioAttract. GROUND APPLICATION Using an ATV with tank apply as a coarse spray or solid stream to a single row in bands 50 to 100 metres apart. AERIAL APPLICATION Make sure that all in line filters are either bypassed or removed and spray nozzles are closed. Apply either direct from a short pipe joined to the pump beneath the undercarriage (bypassing the boom) or from a 300 to 500 mm length of 12.5 mm hose attached to the drainage tap at the end of the spray boom. Wash the lines thoroughly when the job is completed. BOUNDARY TREATMENT Apply as a coarse spray to the 2 to 4 rows on the boundaries of fields where adult <i>Heliothis</i> or other pest moths are entering the crop. Repeat at 10 day intervals as needed. WITHIN CROP TREATMENT Apply as a splash bait or coarse spray to bands 1 row wide at 50 to 100 metre intervals within the crop. Mark treated rows. Apply when <i>Heliothis</i> or other pest moths begin to be active in the crop. Repeat at 10 day intervals as needed. Where crops are small, application to bare ground has proven to be an effective strategy.
Grain legumes (Mung beans, Soy beans, Navy beans, Faba beans, Lentils, Adzuki beans, Vetch, Field peas, Cow peas, Pigeon peas, Lab Lab, Lupins, etc.)		DILUTED Dilute 1:1 with water (10L of Bioattract per 10L of water). Apply diluted mixture at the rate of 2-4 litres per 100 metres of row.	
Sorghum		INSECTICIDE USAGE As 1% (100 metres between treated rows) or 2% (50 metres between treated rows) of the crop is treated, use 1% or 2% of the recommended label rate of the selected insecticide (sold separately).	
Linseed			
Peanuts			
Maize			
Corn			
Wheat			
Barley			
Oats			
Triticale			
Rye			

NOT TO BE USED FOR ANY OTHER PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL

WITHHOLDING PERIOD

Observe withholding periods of insecticides used in combination with BioAttract.