

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

# **BITHOR<sup>®</sup>**

## **DUAL ACTION INSECTICIDE**

ACTIVE CONSTITUENTS:

45 g/L BIFENTHRIN  
55 g/L IMIDACLOPRID

**GROUP 3A 4A INSECTICIDE**

For the Control of a Range of Urban Pests  
as Specified in the Directions for Use Table.



**ENSYSTEX AUSTRALASIA PTY LTD**

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CUSTOMER SERVICE: 13 35 36  
EMERGENCY RESPONSE (ALL HOURS): 13 35 36  
APVMA Approval No: 66870/115128

Contents:

**3 L**

**ENSYSTEX<sup>™</sup>**



## DIRECTIONS FOR USE

### RESTRAINTS

DO NOT apply onto non-porous surfaces that are adjacent to waterbodies.

| PEST  | SITUATIONS  | RATE          | CRITICAL COMMENTS   |
|---|---|---------------|---|
| Ants, Cockroaches, Mosquitoes, Fleas, Flies, Biting Midges & Paper Nest Wasps | Internal & external areas & surrounds of Domestic, Commercial, Public and Industrial buildings, facilities & structures (including but not limited to food processing establishments, shops, factories, farm buildings, ships, trains, aeroplanes, offices, schools, storerooms, hospitals, barracks, private homes, and external areas associated with such establishments.) | 100 mL / 10 L | <b>Residual Surface Treatments:</b> Apply prepared spray to indoor and outdoor surfaces where pests are a problem. Internal harbourage sites include (but are not restricted to) areas such as walls, behind and under sinks, under furniture and indoor plants. External harbourage sites include (but are not restricted to) areas such as building exteriors, eaves, walls, fences, also garages, sheds, gazebos, ornamental plants, bushes, shrubs, hedges, shady or damp areas around buildings. Reapply as necessary.<br><b>For perimeter treatments,</b> apply the prepared spray to a band of soil or vegetation two to three metres wide around and adjacent to the structure. Also treat the foundation of the structure to a height of approximately one metre.<br>When applying to vegetation, ensure that spray penetrates entire plant or hedge and covers both leaf surfaces. Use a spray volume of 5 to 10 L per 100 m <sup>2</sup> . Higher volumes of water may be needed if organic matter is present or foliage is dense.<br>On non-porous surfaces apply as a coarse spray at the rate of 1 L of emulsion per 20 m <sup>2</sup> . When treating non-porous surfaces do not exceed the point of run-off.<br>On porous surfaces or when used through power equipment, spray at the rate of 1 L of emulsion per 10 m <sup>2</sup> . When treating porous surfaces do not exceed the point of run-off.<br>For indoor use, pay particular attention to dark protected areas such as cracks and crevices. Do not use as a space spray.<br><b>Flies, Mosquitoes, Biting Midges:</b> To control flies, mosquitoes and biting midges apply prepared emulsion to surfaces where insects rest or harbour. |
| Spiders   |   |               | Pay particular attention to dark areas such as cracks and crevices, under floors, eaves and other known hiding or resting places.<br><b>For crack and crevice treatments</b> use an appropriate solid stream nozzle.<br><b>As a surface spray,</b> apply as a coarse, low-pressure spray to building areas where spiders hide, frequent and rest. Spray to the point of run-off using around 5 L of spray per 100 m <sup>2</sup> ensuring thorough coverage of the treated surfaces.<br>For maximum spider protection use a two-part treatment.<br>1. Treatment of cracks and crevices.<br>2. Overall surface spray.  |
| Bed Bugs  | Domestic, commercial, industrial and public buildings and facilities (including but not limited to: hotels and backpack accommodation, private dwellings, barracks, hospitals, shops, trains, aeroplanes, offices, schools).  | 100 mL / 10 L | Users undertaking a bedbug treatment should be familiar with the AEPMA Code of Practice (CoP) for the Control of Bed Bug Infestations in Australia and take into account the recommendations included within this document in relation to bedbug management.<br>Treatment should be directed to all areas of infestation (e.g. the bed frame, walls, cracks, crevices, and slatted boards).<br>Consideration should also be given to non-chemical methods of control in areas where insecticide application is not possible.<br>Control of pyrethroid-resistant strains of bed bugs is dependent on direct spray application rather than residual activity.<br>Reinspection in accord with the CoP is essential.  |

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

### GENERAL INSTRUCTIONS

BITHOR Dual Action Insecticide is a powerful knockdown and residual pesticide. Pests are controlled by direct contact or by the residual action when they contact treated surfaces.

### INSECTICIDE RESISTANCE WARNING

**GROUP 3A 4A INSECTICIDE**

For insecticide resistance management BITHOR Dual Action Insecticide is a Group 3A and 4A insecticide. Some naturally occurring insect biotypes resistant to BITHOR Dual Action Insecticide and other Group 3A and 4A insecticides may exist through normal genetic

variability in any insect population. The resistant individuals can eventually dominate the insect population if BITHOR Dual Action Insecticide or other Group 3A and 4A insecticides are used repeatedly. The effectiveness of BITHOR Dual Action Insecticide on resistant individuals could be significantly reduced. Since occurrence of resistant individuals is difficult to detect prior to use, Ensysstex Australasia Pty Ltd accepts no liability for any losses that may result from the failure of BITHOR Dual Action Insecticide to control resistant insects. BITHOR Dual Action Insecticide may be subject to specific resistance management strategies. For further information contact Ensysstex Australasia Pty Ltd.

### MIXING - SHAKE WELL BEFORE OPENING

This product is to be diluted with water prior to application. For best results, make a 'premix' of the required amount of product with an equal volume of water and stir thoroughly. Fill sprayer to half of desired volume and add 'premix'. Agitate thoroughly and then fill sprayer to desired volume and agitate again to ensure proper mixing. Agitate prior to application if spraying is interrupted. Do not store diluted insecticide. Mix only the amount of insecticide needed for each application.

### APPLICATION

Apply diluted insecticide by means of suitable spraying equipment capable of delivering a coarse spray directly onto exposed surfaces frequented by pests. Spray to the point of run-off ensuring thorough coverage of all treated surfaces.

### RE-ENTRY PERIOD

Do not enter treated areas until the spray has dried, and the areas ventilated, unless wearing cotton overalls buttoned to the neck and wrist (or equivalent clothing), and chemical resistant gloves. Clothing must be laundered after each day's use.

### PRECAUTIONS

DO NOT enter treated areas until the spray has dried and the areas ventilated. DO NOT spray directly on mattress, bedding and garments. DO NOT spray directly on humans, pets or animals. Avoid contact with food, food utensils or preparation surfaces.

### PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND THE ENVIRONMENT

Very toxic to aquatic life. DO NOT contaminate wetlands or watercourses with this product or used containers. DO NOT apply if heavy rain has been forecast within 48 hours. Do not apply to mud, sand, mangrove or aquatic habitats. Drift from treated areas may be hazardous to organisms in adjacent aquatic sites. Extreme caution must be used to avoid aquatic contamination.

### PROTECTION OF PETS AND LIVESTOCK

Highly toxic to bees. Will kill bees foraging in the plants to be treated or in hives which are over sprayed or reach by spray drift. Residues may remain toxic to bees for several days after application. Avoid spraying flowers that attract and harbour bees. Before spraying, remove animals and pets from the areas to be treated. Cover or remove any open food and water containers. Remove or remove fish ponds, aquariums etc. before spraying. Do not allow re-entry until spray has dried.

### STORAGE, SPILLAGE AND DISPOSAL

Store in closed, original container in a cool, well ventilated area away from children, animals, food and feedstuffs. Do NOT store for prolonged periods in direct sunlight.

In case of spillage, confine and absorb spilled product with absorbent material such as sand, clay or cat litter. Dispose of waste as indicated below or according to the Australian Standard AS 2507 - Storage and Handling of Pesticides. DO NOT allow spilled product to enter sewers, drains, creeks or any other waterways. Triple 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 deliver empty packaging to an approved waste management facility. DO NOT burn empty containers or product. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots in compliance with relevant Local, State or Territory government regulations. Do not burn empty containers or product. Do not bury waste or surplus product. Dispose of undiluted waste either by dilution and use according to the Directions for Use table or returning to the point of purchase in the original container for controlled disposal. Dispose of diluted surplus product by using according to the Directions for Use table. Do not re-use empty container.

### SAFETY DIRECTIONS

Harmful if swallowed. May irritate the eyes. Avoid contact with eyes. When opening the container, preparing the product for use and using the product, wear cotton overalls buttoned to the neck and wrist (or equivalent clothing), and elbow-length chemical resistant gloves. If applying by spraying equipment carried on the back of the user, wear chemical resistant clothing buttoned to the neck and wrist and washable hat and elbow-length chemical resistant gloves. Wash hands after use. After each day's use, wash gloves and contaminated clothing.

### FIRST AID

If poisoning occurs, contact a doctor or Poisons Information Centre. Phone Australia 13 11 26; New Zealand 0800 764 766.

### SAFETY DATA SHEET

Additional information is listed on the Safety Data Sheet for BITHOR Dual Action Insecticide which is available from Ensysstex on request. Call Customer Service on 13 35 36 or visit our web site at [www.ensystex.com.au](http://www.ensystex.com.au).

### NOTICE

Ensysstex warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with Directions for Use 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 Ensysstex, or under abnormal conditions.

Batch No.:

Date of Manufacture:

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