**FIRST AID**

<table>
<thead>
<tr>
<th>Condition</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>If swallowed</td>
<td>Call poison control center or doctor immediately for treatment advice.</td>
</tr>
<tr>
<td></td>
<td>Have person sip a glass of water if able to swallow.</td>
</tr>
<tr>
<td></td>
<td>Do not induce vomiting unless told to do so by the poison control center or doctor.</td>
</tr>
<tr>
<td></td>
<td>Do not give anything to an unconscious person.</td>
</tr>
<tr>
<td>If on skin or clothing</td>
<td>Take off contaminated clothing.</td>
</tr>
<tr>
<td></td>
<td>Rinse skin immediately with plenty of water for 15-20 minutes.</td>
</tr>
<tr>
<td></td>
<td>Call a poison control center or doctor for treatment advice.</td>
</tr>
<tr>
<td>If in eyes</td>
<td>Hold eye open and rise slowly and gently with water for 15-20 minutes.</td>
</tr>
<tr>
<td></td>
<td>Remove contact lenses, if present, after the first 5 minutes, then</td>
</tr>
<tr>
<td></td>
<td>continue rinsing eye.</td>
</tr>
<tr>
<td></td>
<td>Call a poison control center or doctor for treatment advice.</td>
</tr>
</tbody>
</table>

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-(800)-369-4352 for emergency medical treatment information.

**NOTE TO PHYSICIAN**

Note To Physician: No specific antidote is available. Treat the patient symptomatically. This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**Personal Protective Equipment:** Applicators and other handlers must wear long-sleeved shirt, long pants, shoes and socks. Follow manufacturer’s instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**User Safety Recommendations:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards**

This product is extremely toxic to fish and aquatic invertebrates. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when heavy rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies and drainage systems.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops, plants or weeds. Do not apply this product or allow it to drift to blooming crops, plants or weeds if bees are foraging in the treatment area.

**STOP – Read the label before use**

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

(PRECAUCION AL USUARIO: Si usted no puede leer o entender ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.)

(TO THE USER: If you cannot read and understand English, do not use this product until the label has been fully explained to you.)

For product use information call 1-866-FOR-THOR (866-367-8467) or visit www.for-thor.com.

**NET CONTENTS:** Refer to container label

Manufactured by:

**ENSYSTEX IV, Inc.**

2175 Village Drive, Fayetteville, NC 28304
DIRECTIONS FOR USE

Do not apply BITHOR SC while bees are foraging. Do not apply BITHOR SC to plants that are flowering. Only apply after all flower petals have fallen off. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

RESTRICTIONS

- Do not apply BITHOR SC white bees are foraging.
- Do not apply BITHOR SC to plants that are flowering. Only apply after all flower petals have fallen off.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

APPLICATION RESTRICTIONS

- Do not allow pets, crops, sources of electricity or firewood.
- During any application to overhead areas of structure, cover surfaces below with plastic sheeting or similar material, except for soil surfaces in crawlspaces.
- Wear protective clothing, gloves and respirator when making an overhead application or when applying in poorly ventilated indoor areas.
- Do not allow dripping or runoff to occur during indoor applications.
- For indoor uses apply only as a spot, crack or crevice treatment. Do not apply as a space spray.
- Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.
- Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.
- Do not apply this product in nurseries, homes or patient rooms or in any rooms while occupied by the elderly or infirm.
- Do not apply in classrooms when they are in use.
- Do not apply when occupants are present in the immediate area in institutions such as health care facilities, libraries, schools, offices, etc.
- Do not apply in livestock buildings such as barns.
- Do not apply where electrical short circuits can occur.
- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not allow runoff or puddling of irrigation water following application.
- Do not apply by air.
- Do not apply by any type of irrigation system.

Restrictions Applicable to New York State only:

Do not apply BITHOR SC containing solutions to grass or turf within 100 feet of a body of water (lake, pond, river, stream, wetland or drainage ditch).

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

Additional Application Restrictions for Residential Outdoor Surface and Space Sprays:

- All outdoor applications must be limited to spot or crack-and-crevice treatments only.

for the following permitted uses:

(1) Applications to soil or vegetation, as listed on this label, around structures.
(2) Applications to lawns, turf, and other vegetation, as listed on this label.
(3) Applications to the side of a building, up to a maximum height of 3 feet above grade.
(4) Applications to undersides of eaves, soffits, doors or windows permanently protected from rainfall by a covering, overhang, awning or other structure.
(5) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch width.
(6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other conditions that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches, windows, door and eaves are limited to spot and crack-and-crevice applications only.

STORAGE AND DISPOSAL

Pesticide Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If container is leaking or if material is spilled for any reason or cause, carefully contain any spilled material to prevent non-point pollution.

Do not apply BITHOR SC containing solutions to grass or turf within 100 feet of a body of water (lake, pond, river, stream, wetland or drainage ditch).

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

APPLICATION RESTRICTIONS

- Do not apply BITHOR SC to plants that are flowering. Only apply after all flower petals have fallen off.

INFORMATION

- Do not apply BITHOR SC containing solutions to grass or turf within 100 feet of a body of water (lake, pond, river, stream, wetland or drainage ditch).

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

Additional Application Restrictions for Residential Outdoor Surface and Space Sprays:

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for the following permitted uses:

(1) Applications to soil or vegetation, as listed on this label, around structures.
(2) Applications to lawns, turf, and other vegetation, as listed on this label.
(3) Applications to the side of a building, up to a maximum height of 3 feet above grade.
(4) Applications to undersides of eaves, soffits, doors or windows permanently protected from rainfall by a covering, overhang, awning or other structure.
(5) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch width.
(6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other conditions that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches, windows, door and eaves are limited to spot and crack-and-crevice applications only.

Do not apply BITHOR SC while bees are foraging. Do not apply BITHOR SC to plants that are flowering. Only apply after all flower petals have fallen off. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.
APPLICATION FOR TURF PESTS

BITHOR SC can be used for the control of a wide range of listed pests of turfgrass. Because BITHOR SC’s active ingredients have long lasting residual activity, applications for control of subsurface feeders can be made before the occurrence of egg laying activity. BITHOR SC’s active ingredients also have sufficient knockdown and residual activity to provide remedial and residual control of surface feeding pests.

Restrictions: Do not apply more than 4.5 pints (0.25 lb imidacloprid, 0.2 lb bifenthrin) per acre or 1.65 fluid ounces per 1000 square feet per application. Do not apply more than 9 pints (0.5 lb imidacloprid active ingredient, 0.4 lb bifenthrin) per acre per year or 3.3 fluid ounces per 1000 square feet per year. Do not allow this product to contact plants in bloom while bees are foraging the treatment area. Not for use on commercial sod farms.

Application Sites

Permitted sites: lawns, grounds and landscapes at and/or around residential dwellings (single and multifamily), office, commercial, shopping and institutional buildings and complexes, parks, grounds, recreational areas, athletic fields, playgrounds, airports and cemeteries.

Application Timing

The active ingredients in BITHOR SC have sufficiently long-lasting residual activity that applications can be made prior to egg laying by the target pest(s). Optimum control of turf pests will be achieved when application is made prior to egg hatch followed by sufficient irrigation or rainfall to move the active ingredient through the thatch and down into the underlying soil. Applications can be timed based on past experiences at the site or in the area, current results of adult monitoring/trapping or other methods.

Post Application Watering and Mowing

Do not mow turf or lawn area until after sufficient irrigation or rainfall has occurred so that uniformity of application will not be affected. Optimum control is achieved if irrigation or rainfall occurs within 24 hours after application. Uniformity of application may be adversely affected if turf is mowed prior to irrigation/rainfall occurring.

Application Preparations

BITHOR SC can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Any tank mixture that has not been tested before should be tested before full scale use by first mixing a small quantity of the mixture to ensure there is no reaction or chemical incompatibility.

Because certain cultivars may be sensitive to the final spray solution, test the effects of applications of different rates and volumes of mixed solution on a small patch of a type of grass (with observations over one week to detect the occurrence of negative effects) before application of solutions to larger areas of that type of grass.

Application Equipment and Methods

Apply BITHOR SC mixed in water (according to the table below) as a spray of uniform, coarse application. Properly calibrated equipment must be used to apply BITHOR SC. Check calibration periodically to ensure that equipment is working properly.

Reapplication

Reapplications may be necessary particularly in the event of high pest pressure. Reapply as necessary to achieve control using higher listed application rates as pest pressure and foliage area increases but make reapplications no more often that once every 7 days, not exceeding 9 pints (0.5 lb of imidacloprid active ingredient, 0.4 lb bifenthrin) per acre per year or 3.3 fluid ounces per 1000 square feet per year. Restriction: New York State only. Make a single reaplication of BITHOR SC if there is renewed insect activity, but not sooner than two weeks after first application.

Turf Pest Application Use Rates

Use rates for BITHOR SC for turf pests are stated in fluid ounces of BITHOR SC per 1000 square feet and pints per acre. The use rates listed below provide control of the listed pests under normal conditions. Apply BITHOR SC at 0.4 to 1.65 fluid ounces per 1000 square feet or 1.1 to 4.5 pints per acre, depending on the target pest. Rates for specific pests within this range are given below. Use the higher listed application rates when maximum residual control is needed. Higher rates of fluid ounces or pints per acre may be needed at the discretion of the applicator to control any pest.

Restriction: Do not apply more than 9 pints (0.5 lb of imidacloprid active ingredient, 0.4 lb bifenthrin) per acre per year or 3.3 fluid ounces per 1000 square feet of product per year.

Calculating Amounts of BITHOR SC to Mix for Turf Pests

To mix and apply any amount of BITHOR SC for turf pests based on amount of square feet determined:

$ S = \# \text{ of Square feet of area to be treated} / 1000 \quad (\text{for example} \ 5,500 \text{ sq. ft.} / 1000 = 5.5)$

$ R = \text{Applicable BITHOR SC Use Rate} \quad (\text{fluid ounces per 1000 square feet}) \quad \text{for the target pest(s)} \quad \text{from the Use Rate Table for BITHOR SC for Turf Applications.}$

If treating for more than one type of pest, select the highest.

Calculate the amount of BITHOR SC to mix for turf pests as follows:

Ounces BITHOR SC to use = S x R

Mix this amount of BITHOR SC in the amount of water needed to make the application.

To mix and apply any amount of BITHOR SC for turf pests based on number of acres determined:

$ S = \# \text{ of acres of area to be treated} \quad \times \quad \text{square feet of area to be treated} / 43,560 \quad (1 \text{ acre} = 43,560 \text{ sq. ft.})$

$ R = \text{Applicable BITHOR SC Use Rate} \quad \text{(pints per acre)} \quad \text{for the target pest(s)} \quad \text{from the Use Rate Table for BITHOR SC for Turf Applications.}$

If treating for more than one type of pest, select the highest rate.

Calculate the amount of BITHOR SC to mix for turf pests as follows:

Pints BITHOR SC to use = S x R

Mix this amount of BITHOR SC in the amount of water needed to make the application.

1 Pint = 16 fluid ounces

Application Instructions For Specific Turf Pests

Annual Bluegrass Weevil (Heteroderda) adults: Apply the indicated amount of BITHOR SC to eggs that are laying or emerging from egg masses in late spring or early summer to control adults prior to egg laying. Optimum control is achieved if irrigation or rainfall occurs within 24 hours after application. Uniformity of application may be adversely affected if turf is mowed prior to irrigation/rainfall occurring.

Application Preparations

Annual Bluegrass Weevil (Heteroderda) adults: To mix the indicated amount, make a single reapplication of BITHOR SC if there is renewed insect activity, but not sooner than two weeks after first application.

Application Equipment and Methods

Reapplication

Reapplications may be necessary particularly in the event of high pest pressure. Reapply as necessary to achieve control using higher listed application rates as pest pressure and foliage area increases but make reapplications no more often that once every 7 days, not exceeding 9 pints (0.5 lb of imidacloprid active ingredient, 0.4 lb bifenthrin) per acre per year or 3.3 fluid ounces per 1000 square feet per year. Restriction: New York State only. Make a single reaplication of BITHOR SC if there is renewed insect activity, but not sooner than two weeks after first application.

Calculating Amounts of BITHOR SC to Mix for Turf Pests

Use Rate Table for BITHOR SC for Turf Applications

<table>
<thead>
<tr>
<th>Use Rate</th>
<th>Pints BITHOR SC Use Rate per 1,000 square feet (Range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1.32 to 1.65</td>
</tr>
<tr>
<td>B</td>
<td>0.4 to 1.65</td>
</tr>
</tbody>
</table>

Fluid ounce = 2 tablespoons = 8 teaspoons

Turf Pest Groups by Use Rates

Use Rate A: Annual bluegrass weevil, Aphodius spp., Asiatic garden beetle, Black turfgrass atenatus, Black vine weevil, European chafer, European crane fly, Fruit fly, Green June beetle, Imported Fire Ant, Japanese beetle, Mole cricket, Northern masked chafer, Nuisance ants, Oriental beetle, Phyllophaga spp., Southern masked chafer,Ticks

Use Rate B: Armynoms, Banks grass mites, Bilbugs, Chinch bugs, Centipedes, Cicutworts, Earnings, Fleas, Grasshoppers, Leafhoppers, Mealybugs, Milipedes, Mites, Pillsbugs, Sod webworms, Spod webworms

Turf Pest Application Volumes

Apply the indicated amount of BITHOR SC mixed in a volume of water sufficient to adequately distribute the active ingredient to the target area(s) and to wet all foliage. Do not exceed the maximum application rate by applying solution to an area smaller than intended when it was mixed unless doing so will not result in an application rate in excess of the maximum application rate.
flowering plants (only apply product prior to bloom or after all flower petals have fallen off), ground covers, bedding plants and foliage plants including plants in interior plantasaces. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.) BITHOR SC is a systemic insecticide meaning it can be translocated by the plant’s vascular system from the roots up into the body of the plant. This means optimum effectiveness of BITHOR SC is realized when BITHOR SC is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combining BITHOR SC with a nitrogen containing fertilizer may accelerate or otherwise enhance the uptake of the active ingredient into the plant. Translocation of soil directed applications made to woody stemmed plants can be delayed by up to 60 days. For this reason, applications should be made prior to anticipated pest infestation to achieve optimum levels of control. Foliar applications of BITHOR SC also have local systemic activity against insect pests.

Restrictions:
BITHOR SC is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes. Do not apply this product, by any application method, to linden, basswood or other Tilia species in the State of Oregon. Follow application restrictions on page 2 to protect bees and other insect pollinators.

Foliar Application
Ornamental Application to Control Ants

BITHOR SC can be used to indirectly control ants when applied to control aphids, scale insects, mealybugs and other sucking insects on ornamentals thereby limiting the amount of honeydew excreted.

Foliar Application Volumes and Application Methods

BITHOR SC mixes readily with water and may be used in many types of application equipment. Mix required amount of product from the Use Rate Table for BITHOR SC for Foliar Applications below with the amount of water required to uniformly wet foliage and apply as desired dependent upon the selected use pattern. When making foliar applications on hard to wet foliage such as holly, pine, or ivy, the addition of a spreader/sticker is recommended. If concentrate or mist type spray equipment is used, use an equivalent amount of product on the area sprayed, as would be used in a dilute application. Use treatment prior to establishment of high pest populations. Reapply as needed, not to exceed 9.0 pints (0.5 lb of imidacloprid and 0.4 lb of bifenthrin) per acre per year.

Foliar Application Use Rates

Use rates for BITHOR SC for foliar applications for ornamental pests are stated in fluid ounces and milliliters of BITHOR SC per 1000 square feet. The application rates listed below provide control of the listed pests under normal conditions. Apply BITHOR SC at 0.4 to 1.65 fluid ounces per 1000 square feet, depending on the target pest. Labeled rates for specific pests within this range are given below. Use the higher labeled application rates when maximum residual control is needed.

<table>
<thead>
<tr>
<th>Use Rate</th>
<th>Fluid ounces BITHOR SC per 1000 square feet</th>
<th>Milliliters BITHOR SC per 1000 square feet</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1.32–1.65</td>
<td>40–50</td>
</tr>
<tr>
<td>B</td>
<td>0.4–0.85</td>
<td>12–26</td>
</tr>
</tbody>
</table>

Ornamental Pests Controlled by Broadcast Application

BITHOR SC, applied as a soil drench or soil injection, controls or suppresses a wide range of listed insects on trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, foliage plants, ground covers and interior plantasaces. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.) BITHOR SC is a systemic insecticide meaning it can be translocated by the plant’s vascular system from the roots up into the body of the plant. This means optimum effectiveness of BITHOR SC is realized when BITHOR SC is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combining BITHOR SC with a nitrogen containing fertilizer may accelerate or otherwise enhance the uptake of the active ingredient into the plant. Translocation of soil directed applications made to woody stemmed plants can be delayed by up to 60 days. For this reason, make applications prior to anticipated pest infestation to achieve optimum levels of control.

Applications to trees for the control of existing boron infestations may not prevent the eventual loss of the tree due to existing damage already caused by the pest and stress to the tree caused by the pest infestation.

Restrictions:
BITHOR SC is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes.

Do not apply more than 9.0 pints (0.5 lb of imidacloprid and 0.4 lb of bifenthrin) per acre per year. Do not apply this product, by any application method, to linden, basswood or other Tilia species in the State of Oregon.

Application Sites

For use on ornamental plants: trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior plantasaces.

Application Preparation

Mix required amount of product (from the Use Rate Table for BITHOR SC for Foliar Applications below) with the amount of water required to uniformly wet foliage and apply as desired dependent upon the selected use pattern.

Soil Injection and Soil Drench for Ornamental Pests

BITHOR SC is a systemic insecticide meaning it can be translocated by the plant’s vascular system from the roots up into the body of the plant. This means optimum effectiveness of BITHOR SC is realized when BITHOR SC is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combining BITHOR SC with a nitrogen containing fertilizer may accelerate or otherwise enhance the uptake of the active ingredient into the plant. Translocation of soil directed applications made to woody stemmed plants can be delayed by up to 60 days. For this reason, make applications prior to anticipated pest infestation to achieve optimum levels of control.

Soil injection is not allowed in Nassau and Suffolk Counties of New York.

Soil Injection Use Rate for Trees

Use rates for BITHOR SC in the amount of water determined to be adequate for the treatment to be adequately dispersed, commonly at a low pressure according to one of the two following methods. Make a minimum of 4 injection holes per tree. For optimum control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

Grid injection: Evenly space holes on 2.5 foot centers in a grid pattern in the soil beneath the tree’s branches/ foliage out to the tree’s drip line. Basal injection: Evenly space injection holes around the base of the tree no more than 12 inches out from the tree.
Soil Drench for Trees
Soil Drench Use Rate for Trees

<table>
<thead>
<tr>
<th>Use Rate</th>
<th>% Bithor SC in water</th>
<th>Fluid ounces Bithor SC to add per gallon of water for desired</th>
<th>Milliliters of Bithor SC to add per gallon of water for desired</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0.068%</td>
<td>0.89</td>
<td>26</td>
</tr>
<tr>
<td>B</td>
<td>0.135%</td>
<td>1.79</td>
<td>52</td>
</tr>
</tbody>
</table>

Soil Drench Volume and Application Method for Trees

Mix the calculated amount of BITHOR SC in the amount of water determined to be adequate for the solution to be adequately dispersed. Apply solution at a rate of no less than 10 gallons per 1000 square feet around the base of the tree directed to the root zone. If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

Soil Injection for Shrubs

Restriction: Soil Injection is not allowed in Nassau and Suffolk Counties of New York.

Soil Injection Use Rate for Shrubs

<table>
<thead>
<tr>
<th>Use Rate Table for BITHOR SC for Soil Injection for Shrubs</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.45 to 0.9 fluid ounces per foot of shrub height</td>
</tr>
<tr>
<td>14 to 27 milliliters per foot of shrub height</td>
</tr>
</tbody>
</table>

Soil Injection Volume and Application Method for Shrubs

Mix the calculated amount of BITHOR SC in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply to individual plants using dosing devices.

Soil Incorporation for Flowers and Groundcovers

Apply as a broadcast treatment and incorporate into the soil before planting. Application can also be made after the plants are established prior to bloom or after all pets have fallen off; in this case, best control is achieved if plants are irrigated after application.

Soil Incorporation Use Rate for Flowers and Groundcovers

<table>
<thead>
<tr>
<th>Use Rate Table for BITHOR SC for Soil Incorporation for Flowers and Groundcovers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3 to 1.65 fluid ounces per 1000 square feet</td>
</tr>
<tr>
<td>40 to 50 milliliters per 1000 square feet</td>
</tr>
</tbody>
</table>

PESTs OUTSIDE AND AROUND STRUCTURES

Bithor SC controls a wide range of nuisance pests inside and outside of structures and modes of transport. Bithor SC can be applied in and around any type of residential or commercial structure, building or mode of transport: non-food/non-feed areas of food/feed handling establishments. Permitted application sites include the interior and exterior of homes, apartments, commercial buildings, manufacturing establishments, office buildings, stores, food processing plants (non-food/non-feed areas), warehouses, schools, factories, hospitals, nursing homes, mobile and modular homes, vehicles and marine vessels.

Soil Drench for Shrubs

Soil Drench Use Rate for Shrubs

Soil Drench Volumes and Application Method for Shrubs

Soil Injection Volume and Application Method for Shrubs

Soil Drench Volumes and Application Method for Groundcovers

Regulatory Guidance:

EPA Registration Number: 83010-200-058

Use Rate Table for BITHOR SC for Soil Drench for Shrubs

0.45 to 0.9 fluid ounces per foot of shrub height
14 to 27 milliliters per foot of shrub height

PESTS INSIDE AND OUTSIDE OF STRUCTURES

(OTHER THAN WOOD INFESTING INSECTS)

Bithor SC may be diluted to lower concentrations by applying the same amount of water as for Bithor SC of the appropriate percentage concentration and volume. Then add required volume of a compatible foaming agent. Verify that the foaming agent is compatible with Bithor SC.

When treating overhead, wear safety glasses, goggles or face shield and a dust/mist respirator.

Restrictions:

Do not contact treated surfaces until they are dry.

Do not apply near water sources.

Follow application restrictions on page 2 to protect bees and other insect pollinators.

Do not apply more than 9.0 pints (0.5 lb of imidacloprid and 0.4 lb of bifeniltron per acre/year.

Do not treat firewood.

Application Methods

Apply Bithor SC as a solution in the form of a general surface, spot, crack and crevice, void, pintstream or coarse spray to the structure or areas around the structure where pests can enter the structure or where they have been seen or found or can find shelter. Bithor SC may also be applied with a paintbrush.

Bithor SC may be converted to foam and used to treat structural voids. First form a solution of Bithor SC of the appropriate percentage concentration and volume. Then add required volume of a compatible foaming agent. Verify that the foaming agent is compatible with Bithor SC.

When treating overhead, wear safety glasses, goggles or face shield and a dust/mist respirator.

Restrictions:

Do not contact treated surfaces until they are dry.

Do not apply near water sources.

Follow application restrictions on page 2 to protect bees and other insect pollinators.

Do not apply more than 9.0 pints (0.5 lb of imidacloprid and 0.4 lb of bifeniltron per acre/year.

Do not treat firewood.

Application Use Rates and Volumes

Select a Use Rate from the Bithor SC Mixing Table above. Use the 0.135% rate for severe infestations, faster knockdown or longer residual and for Fire Ants, Hornets, Wasps and Yellow Jackets.

Apply at a high enough volume to adequately wet the treated area without excessive dripping or runoff. Higher application volumes may be used if necessary to sufficiently wet vegetation and vegetation with the spray solution. Higher application volumes may also be used for severe infestations, faster knockdown or longer residual control. For high volume applications, Bithor SC may be diluted to lower concentrations by applying the same amount of Bithor SC in greater volumes of water.

Re-Application

Do not repeat treatments more often than once every 7-10 days. The best efficacy and longest residual control is achieved when the highest listed concentration is used.

Application Locations

Apply spray to the exterior surfaces of structures and to grounds, lawns, landscaping and plants. Can also be applied to any areas where pests congregate or have been seen.

Perimeter Band Treatment

To help prevent pest infestation of structures, create a treated zone or band on the structure, soil and vegetation around the entire perimeter of a structure. Apply solution to all surfaces within a band beginning 6 to 10 feet from the exterior foundation of the structure that extends back to the structure and then continues 2 to 3 feet up the exterior surface of the structure from the ground. Application volume will depend upon the nature of the surface being treated. Mulch areas, for example, require more volume and hard surface areas requiring less.

Control of Specific Pests Outdoors

Ants (Nuisance ants including Carpenter Ants) Outdoors: To achieve the highest level of control, locate and directly treat ant nests. Apply solution to ant trails, around doors and windows and at points where ants can be expected to forage or congregate. Apply to flowering plants (only apply product prior to bloom or after all flower petals have fallen off) shrubs and ornamental plant beds where ants may forage for food (such as honeydew produced by plant-sucking insects). It is recommended that shrubbery and other vegetation directly touching the structure be trimmed away.

For Ant (including Fire Ant) Mounds: Treat mounds and area within a 2 foot radius of the center of the mound with 1-2 gallons of 0.135% solution. When mounds exceed 12 inches in size use the higher solution.

Bees, Wasps, Hornets, and Yellow Jackets: Always use the highest rate (0.135%). Spray near beehives, on ground, in bushes and wherever insects may be nesting. Spray to the point of saturation with a pintstream application. Spray as many insects as possible. Remove and destroy treated nests to prevent emergence of newly hatched insects.

Boxelder Bug and Other Occasional Invaders: Apply a perimeter application directly to where insects have congregated at points of entry. It may be necessary to also treat trees.

Carpenter Ants) Outdoors: To achieve the highest level of control, locate and directly treat ant nests. Apply solution to ant trails, around doors and windows and at points where ants can be expected to forage or congregate. Apply to flowering plants (only apply product prior to bloom or after all flower petals have fallen off) shrubs and ornamental plant beds where ants may forage for food (such as honeydew produced by plant-sucking insects). It is recommended that shrubbery and other vegetation directly touching the structure be trimmed away.

For Ant (including Fire Ant) Mounds: Treat mounds and area within a 2 foot radius of the center of the mound with 1-2 gallons of 0.135% solution. When mounds exceed 12 inches in size use the higher solution.

House Flies and Cluster Flies: Spray surfaces where flies may rest. For Cluster Flies, treat in late summer or fall before flies begin looking for winter shelter.

Mosquitoes: Apply solution to lawns and landscaping, under decks and to building foundations and other points where mosquitoes may rest. Refer to FOLIAR AND BROADCAST APPLICATION FOR ORNAMENTAL PESTS section for mixing and applying large amounts of solution against mosquitoes.

Flies and Ticks: Treat the entire area where insects could be present. Begin treatments in the spring. Insects may be re-introduced by host animals in the surrounding area. Retreatment, not to exceed 9.0 pints (0.5 lb of imidacloprid and 0.4 lb of bifeniltron) per acre per year may be necessary to achieve and maintain control during periods of high pest pressure.

Scorpions: Treat around firewood (but not firewood) and other hiding places. Remove piles of material that may serve as hiding places. Apply a perimeter treatment.
PESTS INSIDE STRUCTURES (OTHER THAN FOOD/FEED AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS) INCLUDING MODES OF TRANSPORT

Pests Controlled

Ants (including Carpenter Ants), Bedbug, Bees (except Carpenter), Beetles (except wood infesting), Blue or Green Bottle Fly, Hide or Leather Beetle, Boxelder Bug, Carpet Beetles, Centipedes, Chinch Moist, Clover Mites, Cuckoo, Cockroaches, Crickets, Dambscess, Earwigs, Elm leaf Beetle, Fleas, Firebrats, Flies, Gnat, Hornets, House Fly, Lady Beetles, Midge, Millipedes, Mosquitoes, Moths, Pillbugs, Scorpions, Sowbugs, Silverfish, Spiders, Springtails, Ticks, Wasps and Yellow Jackets

Application Preparation

When treating in home food preparation and storage areas, cover all food preparation surfaces and utensils prior to beginning treatment. Thoroughly wash surfaces or items that cannot be covered or removed after treatment and before use. Remove food that cannot be covered. Disconnect fish tanks aerators and remove tanks or securely cover before application occurs.

Restriction: Do not allow people and pets to touch treated surfaces until they have dried.

Application Use Rates

Use a 0.068% or 0.135% solution of Bithor SC. Use the higher rate for severe infestations, faster knockdown or longer residual.

Application Methods

Apply Bithor SC as a solution in the form of a spot, crack and crevice, void, pinstream or coarse spray. Bithor SC may also be applied with a paintbrush. Bithor SC may be converted to foam and used to treat structural voids. First form a solution of Bithor SC of the appropriate percentage concentration and volume. Then add required volume of a compatible foaming agent. Verify that the foaming agent is compatible with Bithor SC.

Restriction: For indoor uses apply only as a spot, crack or crevice treatment. Do not apply as a space spray.

Application Locations

Apply to and around any areas pests or their evidence is seen or found, could hide or rest or could enter the premises including cracks and crevices, behind and under cabinets and appliances, around doors, windows and eaves, in attics and storage areas and around pipes and under appliances. Spot treat floor or rugs beneath furniture, in closets, and storage areas. Do not treat an area larger than 3 feet x 3 feet.

Control of Specific Pests Indoors

Cockroaches, Crickets, Firebrats, Scorpions, Silverfish, Spiders, and Ticks: Apply wherever these pests may hide, enter the structure or congregate such as cracks and crevices, baseboards, water pipe openings, around doors and windows, behind and under cabinets and appliances and within storage and attic areas.

Bedbug: To aid in control, apply to cracks and crevices wherever evidence of bedbugs has been found including within empty dressers and closets, on bed frames and box springs and behind high and low wall moldings and wallpaper edges. Not for use as a sole control agent against bedbugs. If evidence of bedbugs is found on in mattresses, use only products approved for application to this item. Do not apply more often than once every 7-10 days.

Restrictions:

Do not spray bed linens, mattresses, blankets or pillows. Do not apply to materials which come in direct contact with occupants of the bed.

Remove all clothes and other articles from dressers or closets before application within them.

Do not apply to furniture or upholstery where prolonged contact with humans will occur.

Boxelder Bug, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, Sowbugs: Apply to points of pest entry into structure such as around windows and doors. Apply anywhere else pests may congregate or be located.

Bees, Wasps, Hornets, Yellow-Jackets: Always use the highest rate (0.135%) when treating bees, wasps, hornets and yellow-jackets. Apply solution to hiding and breeding places, contacting as many insects as possible. Best results are achieved when application is made in the evening when insects are at rest and to avoid stings. Spray to the point of saturation. Spray as many insects as possible. Remove and destroy treated nests to prevent emergence of newly hatched insects.

Ants (Nuisance ants including Carpenter Ants) Indoors: To achieve the highest level of control, locate and directly treat ant nests and ant trails. Apply solution in areas infested by or expected to be infested by ants such as on walls, baseboards, cabinets and around pipes.

IMPORTANT READ BEFORE USE

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