For use by commercial applicators to control pests on lawns and ornamental plants.

EPA Reg. No. 279-3177  
EPA Est. 279-  

Active Ingredient: By Wt.  
Bifenthrin* ............................................................ 23.4%  
Other Ingredients** .............................................. 76.6%  
100.0%  
* Cis isomers 97% minimum, trans isomers 3% maximum.  
** Contains petroleum distillates.  

Onyx® Insecticide contains 2 pounds active ingredient per gallon.  
U.S. Patent No. 4,238,505  

KEEP OUT OF REACH OF CHILDREN  
WARNING  
See other panels for additional precautionary information.  

FMC Corporation  
Agricultural Products Group  
1735 Market Street  
Philadelphia PA 19103  

Net Contents  

FIRST AID  

If swallowed  
• Immediately call a poison control center or doctor.  
• Do not induce vomiting unless told to do so by a poison control center or doctor.  
• Do not give any liquid to the person.  
• Do not give anything by mouth to an unconscious person.  

If inhaled  
• Move person to fresh air.  
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.  
• Call a poison control center or doctor for further treatment advice.  

If on skin or clothing  
• Take off contaminated clothing.  
• Rinse skin immediately with plenty of water for 15-20 minutes.  
• Call a poison control center or doctor for treatment advice.  

If in eyes  
• Hold eye open and rinse slowly and gently with water for 15-20 minutes.  
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.  
• Call a poison control center or doctor for treatment advice.  

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)-331-3148 for Emergency Assistance.  

NOTE TO PHYSICIAN  
Pesticide Hotline (800) 858-7378. This product is a pyrethroid. This product also contains aromatic hydrocarbons. Because of the risk of hydrocarbon pneumonitis if even tiny amounts are aspirated into the lung during emesis, consideration should be given to gastric lavage with endotracheal tube in place. Treatment is symptomatic and supportive. Animal and vegetable fats, milk, cream and alcohol may increase absorption and should not be administered.  

For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).  

PRECAUTIONARY STATEMENTS  
Hazards to Humans (and Domestic Animals)  

Warning  
May be fatal if swallowed. Causes skin irritation and moderate eye irritation. Do not get on skin or on clothing. Avoid breathing vapors or spray mist, and contact with eyes. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash contaminated clothing before reuse.
All pesticide handlers (mixers, loaders and applicators) must wear long-sleeved coveralls worn over a minimum of short-sleeved shirt and short pants, socks, chemical-resistant footwear, chemical-resistant gloves and protective eyewear. After the product is diluted in accordance with label directions for use, shirts, pants, socks, shoes and waterproof gloves are sufficient.

### Environmental Hazards
This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to irrigation areas below mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Do not apply when weather conditions favor drift from treated areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. Do not apply this product or allow it to drift to crops or weeds on which Bees are actively foraging. Additional information may be obtained from your Cooperative Extension Service.

### Physical/Chemical Hazards
Do not use or store near heat or open flame. Do not apply this product in or on electrical equipment due to the possibility of shock hazard.

### DIRECTIONS FOR USE
It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply by air. Do not use in greenhouses, nurseries.

### STORAGE AND DISPOSAL

**Pesticide Storage**
- Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers.
- Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
- Do not pour into drains or other waterways.

**Container Disposal**
- Metal or Plastic Container: Non-refillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for ten seconds after flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds, Pour rinse into application equipment or mix tank or store rinse for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Do not cut or weld metal containers.

**Returnable/Refillable Containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinse into application equipment or rinseate collection system. Repeat this rinsing procedure two more times.

### General Information on the Use of this Product
Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

**General Applications Instructions**

**Onyx® Insecticide** FORMULATION Mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in outdoor plantscapes, such as around residential dwellings, parks, institution- al buildings, recreational areas, athletic fields and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

**Non-foruse on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes.**

**APPLICATION RECOMMENDATIONS**

**Lawn:** Apply Onyx® as a broadcast treatment. Use higher volumes up to 10 gallons of carrier per 1000 square feet to get uniform coverage when treating dense grass foliage.

**Lawn Application Rates**

<table>
<thead>
<tr>
<th>Pest</th>
<th>Lawn Application Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Annual Bluegrass Weevil</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>(Listronotus, formerly Hyperodest)</td>
<td></td>
</tr>
<tr>
<td>Armyworms</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Bills</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Crane Flies</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Crickets</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Cuto worms</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Earwigs</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Fall Webworms</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Fleas (adults, larvae)</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Grasshoppers</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
</tr>
<tr>
<td>Meal bugs</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
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<tr>
<td>Mites</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
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<tr>
<td>Sod Webworms</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
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<tr>
<td>Spittlebugs</td>
<td>0.07-0.15 fl. ozs. per 1000 square feet</td>
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</tbody>
</table>

**CABRILONE® IRRIGATOR**

- Nuts and nut trees including walnuts and hazelnuts
- Row crops including potatoes, tomatoes, and alfalfa
- Ornamental trees, shrubs, and vines
- Grass and turf
- Trees, shrubs, and vines
- Ornamental trees, shrubs, and vines
- Grass and turf
- Trees, shrubs, and vines
- Ornamental trees, shrubs, and vines
- Grass and turf
- Trees, shrubs, and vines
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- Trees, shrubs, and vines
- Ornamental trees, shrubs, and vines
- Grass and turf
- Trees, shrubs, and vines
- Ornamental trees, shrubs, and vines
- Grass and turf
- Trees, shrubs, and vine...
and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed activity. Repeat application should be limited to no more than once per seven days.

**Deer ticks (Ixodes spp.):** Have a complicated life cycle that ranges over a two-year period and involves four life stages. Applications should be made in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that rest in the soil and leaf litter.

**American dog ticks** may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs, and adults.

In New York State, this product **MAY NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).** In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Do not apply when wind conditions favor downwind drift to nearby water bodies. Do not apply when wind velocity exceeds 10 miles per hour.

Apply using nozzles that provide the largest droplet size compatible with adequate coverage.

**Ornamentals and Trees (Foliar applications):** For ornamental applications, dilute 0.26 to 1.26 fluid ounces of Onyx® Insecticide per 10 gallons of water and apply at the rate of 10 gallons per 4,356 square feet. One gallon of finish spray will treat 435 square feet. If a higher volume application is required for adequate coverage of the plant canopy, Onyx® may be diluted in larger volumes of water as long as the maximum label rate (1.26 fluid ounces per 4,356 square feet) is not exceeded. Onyx® may be applied through low volume equipment by dilution with water and providing the maximum label rate (1.26 fluid ounces per 4,356 square feet) is not exceeded.

### ORNAMENTAL APPLICATION RATES

<table>
<thead>
<tr>
<th>Pest</th>
<th>Rate</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ants</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Aphids</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Bagworms</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Black Vine Weevil (adults)</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Brown Soft Scales</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Broad Mites</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Budworms</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Centipedes</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Cicadas</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
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<tr>
<td>Clover Mites</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
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<tr>
<td>Cuckoos</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
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<tr>
<td>Cutworms</td>
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<tr>
<td>Douglas-fir Needle Midge</td>
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<td>0.26 to 0.28</td>
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<tr>
<td>Ephemera</td>
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<td>0.26 to 0.28</td>
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<td>Elm Leaf Beetles</td>
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<td>Fall Webworms</td>
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<tr>
<td>Flea Beetles</td>
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<tr>
<td>Glassy-winged Sharp shooter</td>
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<tr>
<td>Grasshoppers</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
<tr>
<td>Gypsy Moth Caterpillars</td>
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<td>Lace Bugs</td>
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<td>Leaf hopers</td>
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<td>Leaf feeding Caterpillars</td>
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<td>Mealbugs</td>
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<td>Millipedes</td>
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<tr>
<td>Mole Crickets*</td>
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<tr>
<td>Mosquitoes</td>
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<td>Navel Orchard Pine Moth</td>
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<td>Orchard Web Weevil</td>
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<td>Pill Bugs</td>
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<tr>
<td>Pine Sawflies</td>
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<td>Plant Bugs (incl. Lygus spp)</td>
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<tr>
<td>Psyllids</td>
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<tr>
<td>Scale (crawlers)</td>
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<tr>
<td>Scorpion</td>
<td>0.004</td>
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<td>Spiders</td>
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<td>Spittlebugs</td>
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<tr>
<td>Tent Caterpillars</td>
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<tr>
<td>Tip Moths</td>
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<tr>
<td>Weevil</td>
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</tr>
<tr>
<td>Whiteflies</td>
<td>0.004</td>
<td>0.26 to 0.28</td>
</tr>
</tbody>
</table>

**Citrus Thrips**
- Beet Armyworm
- Diaperes (larvae, adult)
- European Red Mite
- Leafrollers
- Spider Mites
- Thrips
- Treehoppers
- Twig Borers
- Zimmerman Pine Moth

**Black Vine Weevil (larvae)**
- Fungus Gravis (adults & larvae)
- Imported Fire Ant Foragers
- Japanese Beetles (adults)
- Leafminers
- Pecan Leaf Scorch Mite
- Sawpal

**TRUNK SPRAYS TO ORNAMENTAL TREES**

**Control of Dendroctonus bark beetles such as mountain pine beetle, southern pine beetle, western pine beetle, Black turpentine beetle, and engraver beetles ( Ips spp.):**

**Preventative control:** Make applications of a spray mixture containing 1.0 to 2.0 pints of Onyx® Insecticide per 100 gallons (0.25 to 0.5 lbs. ai/100 gallons) of water to the trunk of the tree with a hydraulic sprayer in the spring of the year or when a threat of infestation is evident from nearby infested trees. Apply spray directly to the main trunk from the base of the tree to at least half way into the live crown. Spray until the bark is thoroughly wetted by the spray (usually 1 to 4 gallons of spray per tree). Do not apply more than 0.2 lbs. ai (12.8 fl. oz.) of this product per acre. Repeat application may be necessary if reinfestation is likely. Application rates and application timing differ according to the target pest and other factors peculiar to each local situation. Consult your local State Extension specialist or other qualified expert for specific recommendations.

**Treatment of Infested trees to control emerging brood:** Make applications of a spray mixture containing 2.0 pints of this product per 100 gallons of water to trees that still have beetles in the bark. Apply spray directly to the main trunk from the base of the tree to at least half way into the live crown. Spray until the bark is thoroughly wetted by the spray (usually 6 to 12 gallons of spray per tree). Do not apply more than 0.2 lbs. ai (12.8 fl. oz.) of this product per tree. Repeat application may be necessary if reinfestation is likely or for extended adult emergence and flight. Application rates and application timing differ according to the target pest and other factors peculiar to each local situation. Consult your local State Extension specialist or other qualified expert for specific recommendations.

**OTHER BORERS ON ORNAMENTAL TREES**

For other boring insects consult the table below. Application rate and timing will vary according to geographic location and environmental conditions. Spray until the bark is thoroughly wetted by the spray (usually 1 to 4 gallons of spray per tree). Do not apply more than 100 gallons of diluted spray mixture to trees on a treated acre. Consult your local County or State Extension specialist or other qualified authority for specific recommendations.
Pest Control on Outside Surfaces and Around Buildings

For control of ants, including Carpenter Ants, Armyworms, Bees, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetles, Earwigs, European Craneflies, Flies, Flies, Grasshoppers, Hornets, Millipedes, Mosquitoes, Moths, Roaches, including Cockroaches, Spiders, and Sowbugs (Pillbugs) and Wasps.

Apply Onyx® Insecticide using a 0.03 to 0.06% emulsion as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen.

For 0.03% emulsion, mix 1/6 fluid oz. of Onyx® Insecticide per gallon of water. For 0.06% emulsion, mix 1/3 fluid oz. of Onyx® Insecticide per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Onyx® Insecticide. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Repeat treatment as necessary to maintain effectiveness. Repeat application should be limited to no more than once per seven days.

Perimeter Treatment: Apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Use a spray volume of 2 to 10 gallons of emulsion per 1000 square feet. Higher volumes of water may be needed if mulch or leaf litter is present or foliage is dense. House siding may be treated if pests such as Gypsy Moth adults and caterpillars, Boxelder Bugs, Elm Leaf Beetles, Earwigs or Silverfish are present.

For Optimal Control of Ant Mounds use Onyx® Insecticide 0.06% emulsion as Drench Method: Apply 1-2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat 3 feet out around the mound. Use the higher volume for mounds larger than 12". For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

Application to Home Lawns: Apply Onyx® Insecticide as a broadcast treatment in 2 to 10 gallons of carrier per 1000 square feet. Use higher volumes to get uniform coverage when treating dense grass foliage.

Attention
Do not apply to pets, crops, or sources of electricity.

Firewood is not to be treated.

Use only in well ventilated areas.
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 treat areas where food is exposed.
Do not apply this pesticide in livestock buildings (barns).

Do not apply a broadcast application to interior surfaces of homes.

Keep children and pets off treated areas following application until the spray has dried.

Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control or FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT.** Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.

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U.S. Patent No. 6,251,415 (SFR chemical technology).