

SYSTEMIC INSECT SPRAY WITH SYSTEMAXX

- KILLS ADELGIDS, APHIDS, LISTED BORERS, BEETLES & BUGS, LEAFMINERS, SCALE, WHITE GRUBS AND OTHER LISTED PESTS
- FOR ROSES, FLOWERS, BEDDING PLANTS, LISTED FRUIT AND NUTS, SHRUBS, GROUND COVERS, TREES & LAWNS
- PROTECTION CANNOT BE WASHED OFF BY RAIN OR WATER
- KILLS INSECTS AND PREVENTS NEW INFESTATIONS

For Outdoor Residential Use Only.

Store and transport in an upright position.

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Distributed by:

Bonide Products, Inc.

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DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. For best results, be sure to read and follow all label directions. Shake well before using.

NOTE:

- Read and follow directions when using.
- Do not spray the product into fish pools, ponds, streams, or lakes.
- Remove animal feeding dishes prior to application.

TWIST & SHOOT™ READY TO SPRAY INSTRUCTIONS

- 1) Make sure control knob is in "OFF" position, then connect to garden hose.
- 2) Turn water on at faucet. When spraying low growing plants and small shrubs, twist the control knob right, to the "FAN" position. When spraying taller trees, shrubs and other plants, twist the control knob left to the "STREAM" position for extended reach and more uniform coverage. The product mixes automatically with the water as you spray.
- 3) To stop spraying, turn the control knob lever to the "OFF" position. Turn off water at the faucet and disconnect sprayer from garden hose.

ESTABLISHED ORNAMENTALS IN RESIDENTIAL AREAS

General Information

This product is for use on OUTDOOR TREES, SHRUBS and GROWDCOVERS in landscape plantings as listed in the table below:

Landscape Plantings	Types of Plants
Roses, flowers, bedding plants and flowering shrubs	Azalea, begonia, camellia, cherry laurel, geranium, gardenia, hydrangea, impatiens, ligustrum, peonies, primrose, tea roses, salvia, zinnias and similar herbaceous plants
Evergreen and leafy shrubs and woody ornamentals	Arborvitae, boxwood, cotoneaster, euonymus, holly, juniper, laurel, privet, spruce yews and similar plants
Groundcovers	English ivy, dichondra, ivy, pachysandra, vinca and other similar plants

This product is for use to kill the pests listed in the table below on outdoor trees and shrubs.

Pests Controlled	
Adelgids	Leafhoppers (incl. Glassy-winged Sharpshooters)
Aphids	Leafminers (incl. Birch Leafminers)
Black Vine Weevil Larvae	Mealybugs
Roundheaded Borers (incl. Asian Longhorned)	Pine Tip Moth Larvae
Beetles and Eucalyptus Longhorned Borers)	Psyllids
Flatheaded Borers (incl. Bronze Birch, Alder Borers and Emerald Ash Borer)	Royal Palm Bugs
Japanese Beetles (Adult)	Sawfly Larvae
Lacebugs	Scales (incl. Armored Scale and Soft Scale)
Leaf Beetles (incl. Elm Leaf Beetles and Viburnum Leaf Beetles)	Thrips
	Whiteflies

FOLIAR APPLICATIONS

Use this product as a foliar spray to provide contact control of larvae, nymphs or adults of the following insect pests: adelgids, aphids, Japanese beetles, lace bugs, leaf beetles (including elm leaf beetles and viburnum leaf beetles), leafhoppers (including glassy-winged sharpshooter), mealybugs, psyllids, sawfly larvae, thrips (suppression) and whiteflies.

Application Instructions

Apply when insects first appear and before high pest populations are established. Retreat when re-infestation occurs, when high pest pressure is observed or repeat applications on an as-needed basis with 10-14 day intervals between applications.

How to Apply

Foliar applications with water should be made as a thorough cover spray to provide uniform distribution. Spray to wet all foliage (leaves, stems and branches). Target the undersides of the leaves and try to penetrate dense foliage with the spray droplets.

APPLE, PEAR, PEACH, PLUM, CHERRY AND PECAN TREES

For plants established in residential areas as ornamental plantings or as fruit/nuts for consumption.

Plants	Insect Pests Controlled
Apple and Crabapple Pear, Common and Oriental	Aphids (except woolly apple aphid), Japanese beetles, leafhoppers (including glassy-winged sharpshooter), leafminers, mealybugs, and San Jose scale
Peach, Plum and Cherry	Aphids, cherry fruit fly maggot, Japanese beetles, leafhoppers, plant bugs, San Jose scale and stink bugs
Pecan	Yellow pecan aphid, black margined aphid, pecan leaf phylloxera, pecan spittlebug, pecan stem phylloxera

Application Instructions

Timing of applications should coincide with vulnerable stages of the pests. The calendar schedules below are to be used as a guide to application timing but should not be considered a forecast or predictor for treating these insect pests. Consult your State Agricultural Extension Service agent for specific schedules and guidance for your local area. In addition, observe these guidelines for treating the following pests:

- **Aphids:** Make application when aphids first appear and before the leaves are rolled as a result of these pests.
- **Leafhoppers:** Make applications when leafhoppers first appear, during the nymph stage.
- **Leafminers:** Make two applications with intervals of 10 or more days. Make the first application soon after the petal fall is complete. A second application at the same dosage 10 days later should be applied to the early instar larvae.
- **Mealybugs:** Thorough and uniform coverage is necessary.
- **San Jose Scale:** Make application when crawlers are present. Ensure complete spray coverage of the branches, stems and leaves.
- **Spittlebug:** Apply when spittle masses are present and as new generations develop.

FOR APPLES AND PEARS

Apply full cover sprays after the petal fall is complete. Continue application until the target insects are controlled. Apply up to five (5) foliar applications per season and allow 10 or more days between insecticide applications. Allow seven (7) days between the final application and the apple or pear harvest.

Stage of Trees	Approximate Dates	Apple	Pear
Petal fall	May 22		
1 st cover spray, 5-10 days after petal fall	June 1	x	x
2 nd cover spray, 10-14 days later	June 15	x	x
3 rd cover spray, 10-14 days later	June 29	x	x
4 th cover spray, 10-14 days later	July 13	x	x
5 th cover spray, 10-14 days later	July 27	x	x
Waiting period before harvest	-	7 days	7 days

FOR PEACHES

Apply full cover sprays after the petal fall is complete. Continue application until the listed insects are controlled sufficiently. Use up to three (3) foliar applications per season. Allow at least 7 days between applications.

Stage of Trees	Approximate Dates	Peach
Petal fall	May 25 - June 1	
1 st cover spray, 5-10 days after petal fall	June 1	x
2 nd cover spray, 7-14 days later	June 8 - 14	x
3 rd cover spray, 7-14 days later	June 15 - 21	x
Waiting period before harvest	-	0 days

FOR CHERRIES AND PLUMS

Apply full cover sprays after the petal fall is complete. Continue application until the target insects are controlled sufficiently. Apply up to five (5) foliar applications per season and allow 10 or more days between insecticide applications. Allow seven (7) days between the final application and the cherry or plum harvest.

Stage of Trees	Approximate Dates	Cherry	Plum
Petal fall	May 22		
1 st cover spray, 5-10 days after petal fall	June 1	x	x
2 nd cover spray, 10-14 days later	June 15	x	x
3 rd cover spray, 10-14 days later	June 29	x	x
4 th cover spray, 10-14 days later	July 13	x	x
5 th cover spray, 10-14 days later	July 27	x	x
Waiting period before harvest	-	7 days	7 days

FOR PECANS

Apply full cover sprays after the petal fall is complete. Continue application until the listed insects are controlled sufficiently. Use up to three (3) foliar applications per season. Allow at least 7 days between applications.

Stage of Trees	Approximate Dates	Pecan
Petal fall	Late April	
1 st cover spray, 5-10 days after petal fall	May 1	x
2 nd cover spray, 10-14 days later	May 15	x
3 rd cover spray, 10-14 days later	May 30	x

LAWNS

General Information

This product kills White Grubs, Mole Crickets, European Crane Fly Larvae and other pests listed in the table below. This product forms a protective barrier in the soil which provides control of listed pests all season long. When applied early, this product kills grubs, mole crickets and European crane fly before they hatch and damage lawns. Contact your County Extension Agent for the best dates to apply in your area. This product may be sprayed over soil or mulch. Remove weed barrier before applying.

Use on lawns and yards including the following grasses:

Cool season or Northern lawns	Warm season or Southern lawns
Kentucky bluegrass, Perennial ryegrass, Tall fescue, fescues (red or fine leaf)	Bermudagrass, Common and hybrid Centipedegrass St. Augustinegrass Zoysiagrass Buffalograss Bahagrass

Pests Controlled

Pest	Indication of Damage to Lawns
Adelgids Annual bluegrass Weevil Aphids Billbugs Bluegrass Weevils Chinch bug (suppression) Cutworms (suppression) Elm leaf beetle European crane fly larvae Lacebugs Leafhoppers Leafminers	European crane fly larvae often cause damage by feeding on grass roots and disrupting the soil surface. Mole crickets often cause extensive damage by tunneling through lawns. Some species also feed on roots. Tunneling uproots the grass so it easily dries out. Lawns turn yellow, become thin, weedy and can eventually die.

Pests Controlled Cont.

Pest	Indication of Damage to Lawns
Mealybugs Mole crickets Sawfly larvae Sod webworm Thrips Whiteflies White Grubs (including larvae of Asiatic Garden Beetle, Black Turfgrass Ataenuis, Chafer, Japanese Beetle, May or June Beetle, and Oriental Beetle)	White grubs cause extensive damage to lawns by feeding on grass roots. Grass turns yellow, then brown and dies. Grubs chew off roots so that the grass is easily pulled up in pieces in your hands. You can roll it back like a carpet to reveal the grubs. If patches of dead grass appeared in your lawn late last summer, check for grubs.

APPLICATION INSTRUCTIONS

- For White grub control in Northern lawns, applications should be made May.
- For White grub control in Southern lawns, applications should be made from May to early June.

Contact your State Agricultural Extension Service agents for additional recommendations for your area.

NOTE: Do not exceed one application of this product per season for lawns.

READY-TO-SPRAY INSTRUCTIONS - LAWNS

This product is a ready-to-spray formulation. Attach the bottle to your garden hose according to the directions below. Water will mix with this product as you spray.

- 1) Measure area to be sprayed. Calculate "square feet" by multiplying length times width. This 32 fl. oz. container will cover up to 5,333 sq. ft.
- 2) Make sure control knob is in "OFF" position, then connect to garden hose.
- 3) Turn water on at faucet. When spraying low growing plants and small shrubs, twist the control knob right, to the "FAN" position. When spraying taller trees, shrubs and other plants, twist the control knob left to the "STREAM" position for extended reach and more uniform coverage. The product mixes automatically with the water as you spray.
- 4) To stop spraying, turn the control knob lever to the "OFF" position. Turn off water at the faucet and disconnect sprayer from garden hose.

Spray evenly over the measured area. 32 fl. oz. covers approximately 5,333 sq. ft. For heavier infestations, use 32 fl. oz. to treat 3,560 sq. ft.

NOTE:

- Children and pets may re-enter the treated area after the spray has dried.
- Do not water lawn within one hour after applying.
- Avoid applying this product to waterlogged areas, as product effectiveness may be diminished.
- For grub (larvae) control, $\frac{1}{2}$ inch of rainfall or irrigations should occur within 24 hours after application. Thoroughly wet the lawn a few hours after application.
- For armyworm and cutworm control, do not irrigate treated areas within 24 hours after application of this product.
- Avoid mowing treated lawn until after adequate rainfall or irrigation has occurred.

STORAGE AND DISPOSAL

Pesticide Storage: Store in original container in a cool, dry place, out of the reach of children, preferably a locked storage cabinet. Protect from freezing.

Pesticide Disposal: If empty: Nonrefillable container. Do not reuse or refill this container. Rinse the empty product container thoroughly and disperse the rinse water on lawn as part of the application. Offer for recycling if available. If recycling is not available: then dispose of container in sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

If partly filled: It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please call your local solid waste agency. Never place unused product down any indoor or outdoor drain.

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378.

If in eyes:	<ul style="list-style-type: none">• 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.
If swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.

Note to Physician: No specific antidote is available. Treat the patient symptomatically.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to lakes, streams or ponds. Do not dump rinse water into sewers or other bodies of water. This pesticide is highly toxic to bees. Do not apply this product when bees are active. Apply this product only as specified on this label.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of liability before using this product.

If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

CONDITIONS

The directions for use of this product are believed to be adequate and must be followed carefully. However, because of manner of use and other factors beyond Bonide Products, Inc.'s control it is impossible for Bonide Products, Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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