



Department of Agriculture
STATE OF HAWAII

9521.80

LICENSED

PERIOD 2015-2017 LIC. NO.



AMAZIN[®]

1.2% ME

PLUS

Botanical insecticide, repellent, insect growth regulator and nematicide

- For use on turfgrass (including golf courses and athletic fields), outdoor shrubs, trees, non-crop areas and ornamentals
 - For greenhouses, shadehouses, interiorscapes, and nursery uses
 - For commercial and industrial areas
- For controlling and repelling insects such as aphids, armyworms, beetles, budworms, cutworms, fungus gnats, houseflies, leafhoppers, leafminers, loopers, leafrollers, and other caterpillars, mealybugs, mushroom flies (or sciarid flies), sawflies, scales, thrips, webworms, weevils, whiteflies; and plant parasitic nematodes such as burrowing, dagger, golden and various root knot nematodes.



For Use in Organic Production

ACTIVE INGREDIENT:

Azadirachtin	By Weight	1.2%
Inert Ingredients.....		98.8%
TOTAL		100.0%

Contains 0.10 lb. (45.4 grams) of azadirachtin per gallon.

EPA Reg. No. 5481-559

EPA Est. No. 5481-CA-1

KEEP OUT OF REACH OF CHILDREN CAUTION - CUIDADO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.



4100 E. Washington Blvd. • Los Angeles, CA 90023 U.S.A.
1-888-462-6822



Net Contents: 1 Gallon

12507
20121018

FIRST AID

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 on skin or clothing	<ul style="list-style-type: none">• 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.

EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

Transportation: CHEMTREC 1-800-424-9300

Other: AMVAC 1-888-462-6822

For emergency information on Amazin Plus 1.2%ME, call the National Pesticides Information Center at 1-800-858-7378. 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times call the poison control center at 1-800-222-1222

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions on some individuals. Do not get in eyes or on clothing. Avoid contact with eyes, or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Socks and shoes

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product through any irrigation system unless the chemigation instructions on this label are followed. 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 requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of **4 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls over short sleeved shirt and shorts pants
- Waterproof gloves
- Shoes plus socks

User Safety Recommendations

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR, part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. For other uses including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

PRODUCT DESCRIPTION - GENERAL

AMAZIN PLUS 1.2%ME is a microemulsion concentrate containing 1.2% by weight azadirachtin. It has been evaluated on a wide variety of ornamental, forestry and food crops. No phytotoxicity has been observed when used as directed. AMAZIN PLUS 1.2%ME is an insect growth regulator and does not control adult insects. Results are typically observed 3 – 7 days after first treatment. However, AMAZIN PLUS 1.2%ME is also effective as a repellent towards some adult species as detailed below. When AMAZIN PLUS 1.2%ME applications are rotated with other insecticides as part of a comprehensive Integrated Pest Management (IPM) program, insecticide resistance can be significantly delayed or prevented in target insect populations.

Bee Toxicity: AMAZIN PLUS 1.2%ME is not toxic to bees but applications should be made only when bees are not actively foraging.

Mode of Action

AMAZIN PLUS 1.2%ME is an insect growth regulator (IGR) and controls insects in the larval/nymphal and pupal, stages by interfering with the metabolism of ecdysone which is the key molting hormone in insects. Insects typically die during egg hatch and between larval to larval (nymph to nymph), larval to pupal molts, or during adult eclosion from pupae. Azadirachtin also effectively kills insects in the pupal stages by shutting down ecdysone hormone activity and thereby widens the window of control. Uptake by insects is either by contact, by ingestion or both. Predatory insects or predatory mites which do not feed on plants are therefore generally not affected by AMAZIN PLUS 1.2%ME-- making it compatible with many biological insect control programs as well.

Repellency: AMAZIN PLUS 1.2%ME has been shown to be an effective repellent to a wide range of insect species and treated plants exhibit reduced feeding damage or egg laying by insect pests because of the repellent action of the product.

Compatibility

AMAZIN PLUS 1.2%ME is a true microemulsion (water dilutions appear translucent) and has been determined to be compatible with the most commonly used insecticides, fungicides and fertilizers. However, growers should always check compatibility by using the correct proportion of the intended products in a small test container. Growers should then test the tank-mix combinations for possible adverse effects (such as settling out, flocculation, etc.) and for phytotoxic effects on a small sample of plants prior to use. As environmental conditions can alter the interactions between compounds, a compatibility test is recommended for both new and previously used combinations. Avoid mixtures of multiple products and very concentrated spray mixtures.

Do not use AMAZIN PLUS 1.2%ME with Bordeaux mixture, triphenyltin hydroxide, lime sulfur, Rayplex iron or other highly alkaline materials. Use mildly alkaline mixtures immediately after mixing. Alternatively, the pH of the spray mixture can be lowered with acid buffers to prevent loss of insecticidal activity. Azadirachtin breaks down rapidly at high pH.

When using AMAZIN PLUS 1.2%ME in combination with other products, use AMAZIN PLUS 1.2%ME at the rate specified in this label. Follow the directions for use, precautions and limitations for use on all product labels used in the combination. Since azadirachtin is an insect growth regulator, tank mixing an insecticide that kills adults provides additional benefit. Some suggested tank mix combinations are as follows:

AMAZIN PLUS 1.2%ME plus a standard non-phytotoxic oil or organosilicone oil combinations

AMAZIN PLUS 1.2%ME plus endosulfan*

AMAZIN PLUS 1.2%ME plus chlorpyrifos or other organophosphates*

AMAZIN PLUS 1.2%ME plus *Bacillus thuringiensis** (BT)

AMAZIN PLUS 1.2%ME plus bifenthrin or other pyrethroids*

AMAZIN PLUS 1.2%ME plus abamectin*

AMAZIN PLUS 1.2%ME plus imidacloprid or other neo-nicotinoids*

AMAZIN PLUS 1.2%ME plus pyrethrum+piperonyl butoxide (for fogging use)*

*Always follow the manufacturer's Directions for Use and Precautionary Statements.

Phytotoxicity

In general, no phytotoxicity has been observed when plants or trees are sprayed with AMAZIN PLUS 1.2%ME at higher rate than those provided in the directions for use. However, certain species of ornamental plants, such as *Gloxinia*, can be sensitive under certain conditions. On certain plants, frequent sprays may slightly reduce the waxy coating on leaves and fruit (without other adverse symptoms). Always exercise care when mixing adjuvants by performing a pre-test on sample plants prior to large-scale use.

APPLICATION INSTRUCTIONS

READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE. AMAZIN PLUS 1.2%ME is exempt from food crop tolerances (40 CFR Sec 180.1119) and may be applied as directed to any food or non-food crop up to and including the day of harvest (0 day PHI) at a rate not exceeding 56.4 oz. (20 grams active ingredient) per acre per application. Crops can be harvested as soon as spray has dried.

Mixing

Shake well before use. Always use this product promptly after mixing with water. AMAZIN PLUS 1.2%ME will break down in the spray solution if not used within 8 hours. Never allow tank mix to stand overnight. The recommended pH range is between 5.5 and 6.5. AMAZIN PLUS 1.2%ME will break down under high pH conditions (> pH 7.5). For optimum performance, a buffering agent may be used. When mixing with other approved agrichemicals, always ensure proper agitation in the spray tank to ensure uniform application.

From the use rates chart, determine the amount of AMAZIN PLUS 1.2%ME required for the number of acres to be treated. To a clean spray tank, add at least one-half the water to be sprayed. Begin agitation and add the determined amount of AMAZIN PLUS 1.2%ME. Add the remaining water and continue agitation.

AMAZIN PLUS 1.2%ME disperses freely when added to water. Always use clean equipment. For uniform distribution on plant canopy and proper dilution, always ensure proper agitation in mixing tanks or vessels. When mixing with other agrichemicals, add solid constituents (such as wettable powders, water dispersible granules or micronutrients) last in the form of a slurry.

Application Method and Equipment

AMAZIN PLUS 1.2%ME can be applied as a foliar spray or a drench to soil, compost, manure or non-soil media (e.g., greenhouses, compost and manure piles) to control insects and nematodes. When needed, soil drenches can also be used to control soil-borne pests including soil-dwelling larvae of foliar insect pests. When applying as a drench, ensure good wetting of the soil or media but avoid excessive leaching. AMAZIN PLUS 1.2%ME can also be applied through sub-surface soil treatment equipment (e.g. turfgrass). AMAZIN PLUS 1.2%ME can also be injected into mature trees (landscaping, forestry, residential, etc.) using appropriate tree injection equipment. To repel adults, apply through fogging equipment. Always follow equipment manufacturer's Use Directions.

AMAZIN PLUS 1.2%ME may be diluted in water volumes ranging from 5 gallons/acre (low-volume or aerial) to around 300 gallons/acre (high-volume) depending on canopy size and spray equipment. Avoid spray run-off. AMAZIN PLUS 1.2%ME may be applied using any powered or manual pesticide application equipment which includes, but not restricted to, high-volume, low-volume, ultra-low volume, aerial, electrostatic, fogging, and chemigation. Follow the original manufacturer's recommendations when using these types of equipment.

Application Timing, Frequency and Use of Adjuvants

For optimum results, make applications when pests first appear or at egg hatch. **Two applications made at 7 to 10 day intervals are recommended unless otherwise specified.** Make foliar applications to both sides of leaves. AMAZIN PLUS 1.2ME can be mixed with suitable sticking agents (adjuvants) as per manufacturer's use recommendations to improve product performance, especially when rain is anticipated. The addition of any non-phytotoxic vegetable or synthetic oil can also improve product performance especially against certain insects such as leafminers, mealybugs or scales. Do not exceed 1.0% (v/v) and follow oil manufacturer's use recommendations. The addition of oil improves penetration of azadirachtin into leaves and prolongs residual activity. However on sensitive plants, addition of oils should be avoided (see phytotoxicity section above).

USE RATE

AMAZIN PLUS 1.2%ME is intended for use on all plants grown indoors or in greenhouses, turfgrass (including golf courses and athletic fields), shadehouses, interiorscapes and nurseries.

General Use Directions: AMAZIN PLUS 1.2%ME has excellent dispersion qualities and must be used at rates ranging from 15-30 oz/acre for a wide range of crop and pest conditions. Due to the unique nature of the formulation, for foliar applications, more than 30 oz/acre are generally not required. Growers can make more frequent applications at a lower rate rather than fewer applications at high rates. However, when pest infestation levels are low or when tank-mixed with other compatible insecticides, AMAZIN PLUS 1.2%ME can be used at 8-15 oz but do not use less than 4 oz/acre per application. When pest levels increase or show an increasing trend or when crop canopy size increases, adjust rates higher. Spraying twice at 7-10 day intervals. However, spraying every 3-5 days may be needed to keep a rapidly-increasing population in check. If rain occurs soon after treatment, re-spraying the field may be required. Addition of compatible sticking agents may aid rain-fastness.

Time of Application: For optimum results, spray during early morning hours or later during the day when pests are least active.

Use the table below to determine the appropriate use directions for your site/pest combination. When infestation is heavy or when plant canopy is dense, AMAZIN PLUS 1.2%ME may not exceed 56.4 oz/acre. When combining with other insecticides, use half the recommended rate of AMAZIN PLUS 1.2%ME.

AMAZIN PLUS 1.2%ME can be injected into mature trees (landscaping, forestry, residential, etc.) using appropriate tree injection equipment. Inject at the rate of 0.38 to 0.50 oz. per inch tree trunk diameter, and repeat application if needed. DO NOT exceed 56.4 oz. per acre per application.

USE DIRECTIONS FOR TREE INJECTION OR TREE TREATMENT		
PEST	RATE (oz/inch Tree Trunk Diameter)	COMMENTS
Whiteflies, Aphids, Psyllids, Leafminers, Thrips, Scales, Mealybugs, Ash Borers and other insects that feed on foliage	0.38-0.50	Inject with suitable equipment that ensure uniform and slow delivery of the product. Evenly space drill holes (3/16" diameter) approximately 3-5 inches apart and 2-5 feet off the ground. For example, a tree with a 10 inch tree trunk diameter can be injected with 5 oz of product (max). Trees can also be drenched or injected around the drip line or at the base of tree trunk. Mix 0.7 oz per 2.5 gallons. Repeat every 60 days or as needed.

FOR USE IN GREENHOUSES (INCLUDING HYDROPONIC), TURFGRASS (INCLUDING GOLF COURSES AND ATHLETIC FIELDS), SHADEHOUSES, INTERIORSCAPES AND NURSERIES

Use the table below to determine the appropriate use rate for each pest. Foliar sprays for individual plants should thoroughly wet both sides of the leaves without causing runoff. Mix spray solution according to use rates and recommendations below. For the treatment of small areas, add 2.0 oz AMAZIN PLUS 1.2%ME to 10 gallons of water. One gallon of finished spray will treat 1000 square feet. When used as a drench, apply one pint of finished spray for each gallon of soil in the pot. For large areas, use up to 100 to 200 gallons of finished spray per acre. Do not exceed 56.4 oz of AMAZIN PLUS 1.2%ME per acre per application. For hydroponic applications, AMAZIN PLUS 1.2%ME can be injected undiluted or diluted directly into the hydroponic solution by using appropriate chemigation equipment. Solution must be buffered between pH 5.5-6.5 and applications be made during early morning hours to maximize root uptake. For more information read the chemigation section of this label.

USE RATES FOR ANY PLANTS GROWN INDOORS OR IN GREENHOUSES (INCLUDING HYDROPONIC), TURFGRASS (INCLUDING GOLF COURSES AND ATHLETIC FIELDS), SHADEHOUSES, INTERIORSCAPES AND NURSERIES		
PEST	RATE* (oz/100 gallons)	COMMENTS
APHIDS , such as: Green Peach Aphids, Pea Aphids, Cotton Aphids, Rose Aphids	20	Spray when pests first appear. Addition of 0.5-1.0% non-phytotoxic oil will enhance efficacy.
BEETLES , such as: Bark Beetles, Flea Beetles, Japanese Beetles, Leaf Beetles	20	Spray when pests first appear. Repeat as needed.
BORERS , such as: Peachtree Borers, Peach Twig Borers	20	Spray when pests first appear. Repeat as needed.
CATERPILLARS , such as: Armyworms, Bagworms, Cutworms, Leafrollers, Loopers, Spruce Budworms, Webworms	20	Spray when pests first appear. Spray turf greens to allow penetration into the thatch layer.

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USE RATES FOR ANY PLANTS GROWN INDOORS OR IN GREENHOUSES (INCLUDING HYDROPONIC), TURFGRASS (INCLUDING GOLF COURSES AND ATHLETIC FIELDS), SHADEHOUSES, INTERIORSCAPES AND NURSERIES		
PEST	RATE* (oz/100 gallons)	COMMENTS
FLIES , such as: Crane Flies, Fruit Flies, Fungus Gnats, Shore Flies	20	Add at least 1 pint of mixture per gallon pot as soil drench. Repeat application every 7 days for 3 weeks. For poinsettias, lilies and bedding plants/plugs also make one application 10 to 15 days prior to shipping plants/plugs to kill pupae and prevent adult emergence.
LACEBUGS , such as: Azalea Lacebugs, Spittlebugs	20	Spray when pests first appear.
LEAFHOPPERS , such as: Grape Leafhoppers, Potato Leafhoppers	20	Spray when pests first appear. For food crops: Repeat application after 7-10 days. Apply in sufficient water to cover underside of leaves. For non-food crops: Repeat application every 5 to 7 days.
LEAFMINERS , such as: Serpentine Leafminers	20	Spray early. Make 2 applications in rotation or in combination with adulticides such as pyrethroids or abamectin.
MEALYBUGS	20	Can be used in combination with 0.5-1.0% non-phytotoxic oil when populations are high or increasing.
NEMATODES , such as: Burrowing Nematodes, Dagger Nematodes, Foliar Nematodes, Golden Nematodes, Root Knot Nematodes	20	Drench at least 1 pint of mixture per gallon pot once a week for 4 weeks. Avoid leaching-drench until moist to the touch. For heavy infestations, use the higher rate and drench more frequently. Spray turf greens to allow penetration into the thatch layer For plants grown hydroponically, inject into irrigation system by using a metering device. Adjust pH of water to 5.5 to 6.5. Treat during early hours of the morning when plant uptake is at maximum.
SOFT SCALES	20	Use in combination with 0.5-1.0% non-phytotoxic oil in sufficient water to cover twigs and leaves when populations are high or increasing.
THRIPS , such as: Western Flower Thrips	20	Spray when pests first appear. Repeat every 5 to 7 days.
WEEVILS , such as: Black Vine Weevils, Strawberry Vine Weevils	20	Make foliar applications to deter adult feeding. Make soil drench applications during spring and fall periods to control larvae. Make at least 3 to 4 applications 10 days apart.
WHITEFLIES , such as: Greenhouse Whiteflies, Silverleaf Whiteflies (including Q-type strain)	20	Ensure good coverage to top and bottom of leaves against larvae and pupae. Can be applied after bract formation on poinsettias. (Test for phytotoxicity prior to large-scale use is recommended.)

* When tank-mixing AMAZIN PLUS 1.2%ME with other insecticides, the rate may be reduced by half.

USE DIRECTIONS FOR CONTROLLING VARIOUS SPECIES OF NEMATODES		
PEST	RATE (oz)/ ACRE	COMMENTS
NEMATODES, such as all species of Root Knot Nematodes, Sting Nematodes, Ring Nematodes, and other soil dwelling plant pathogenic Nematodes	25.0 – 56.0	<p>For Ornamental trees: Drench or inject the area around the drip line and thoroughly soak the soil in Spring and Fall.</p> <p>Make 2 early fall applications (10-20 days apart). Apply through proper drip irrigation systems.</p> <p>For Lawns: Drench affected areas at least 3 times 10 to 14 days apart. Irrigate through sprinkler system to allow percolation into soil profile.</p> <p>Important: Add buffering and wetting agents to aid penetration into the soil profile and to increase efficacy. Treat early in the morning to maximize plant uptake and ensure good dispersion around the root zone. For heavy infestations, use the higher rate and drench more frequently. Read the chemigation section of this label for more details.</p>

USE RATES FOR MANURE PILES.		
PEST	RATE ¹ (oz/1,000 sq. ft.)	COMMENTS
Mushroom Flies or Sciarid Flies, Houseflies, Phorid Flies, Nematodes	1.25	<p>For Manure Piles and Compost: Surface treat and incorporate using appropriate equipment when the manure piles are moist. Avoid treating when manure is too wet. Directly spray on to areas where flies are actively breeding. Mix with adulticides such as pyrethroids or organophosphates to kill adult flies.</p>

¹ Do not exceed 1.25 oz. AMAZIN PLUS 1.2%ME per 1,000 square feet, or 56.4 oz. per acre per application.

USE SITES

AMAZIN PLUS 1.2%ME can be used on:

GREENHOUSE FOOD CROPS, such as: *Brassica* (cole) crops, Cucurbits, Eggplants, Herbs and Spices, Leafy Vegetables, Legumes, Peppers, Tomatoes, and other miscellaneous crops grown in greenhouses (including hydroponic systems).

NON-CROP AREAS: AMAZIN PLUS 1.2%ME can be applied to non-crop areas, such as athletic fields, barrier strips, campsites, cemeteries, farm yards, fence rows, fuel storage areas, grasslands, pastures, rights-of-way, sheds, soil banks, uncultivated or fallow farmland, vegetative barriers and fences, and areas surrounding agricultural farms or other buildings.

COMPOST AND MANURE TREATMENT: Manure or refuse piles, mulches, cull piles, pre-treatment for potting soils or compost for greenhouses, soil application with no mention of crops to be grown (potting soil, top soil).

COMMERCIAL AND INDUSTRIAL AREAS, such as: Food and feed processing plants (fresh fruit and vegetable packing and processing), food marketing, food storage, food distribution, feedlot operations, dairy operations and poultry farms to treat manure on and off-site.

ORNAMENTAL PLANTS, such as: Actinopterus, African Violets, Ageratum, Aglaorema, Algerian Ivy, Allamanda, Alocasia, Antherium, Aphelandra, Arbovitae, Artemisia, Aster, Aucuba llex, Baby's Breath, Begonia, Boston Fern, Bougainvillea, Boxwood, Brachycome, Cacti, Calabrese, Caladium, Calathea, Calendula, Calla, Camellia, Carnation, Ceanothus, Christmas trees, Chrysanthemum, Cineraria, Coleus, Columbine, Cotoneaster, Cyclamen, Daffodil, Dahlia, Daisy, Daylily, Delphinium, Dianthus, Dieffenbachia, Dogwood, Dusty Miller, Easter Lily, English Ivy, Euphorbia, Fern, Ficus, Foliage Plants, Foxglove, Freesia, Fuschia, Gallardia, Gardenia, Geranium, Gerbera, Gladiola, Gloxinia (phytotoxicity test recommended), Gypsophilla, Hedera, Hibiscus, Hyacinth, Hydrangea, Illex, Impatiens, Iris, Ivy, Lily, Maidenhair Fern, Manville, Marigold, Narcissus, Nasturtium, Orchid, Pansy, Pelargonium, Peony, Peperomia, Petunia, Philodendron, Phlox, Photinia, Pinks, Pittosporum, Poinsettia, Pothos, Portulaca, Primrose, Pyracantha, Rhododendron, Rosemary, Roses, Rubber Plant, Salvia, Schefflera, Sedum, Sempervivum, Snapdragon, Spathiphyllum, Stock, Syngonium, Tulip, Verbena, Vinca, Wandering Jew, White Cedar, White Pine, Yew, Yucca, Zinnia.

CHRISTMAS TREES AND CHRISTMAS TREE PLANTATIONS

ORNAMENTAL TREES AND SHRUBS, such as: Andromeda, Arborvitae, Ash, Austrian Pine, Azalea, Beech, Birch, Birdsnest Spruce, Blue Spruce, Bougainvillea, Boxwood, Butternut, Cedar, Chamaecyparis, Cherry, Crabapple, Cyprus, Dogwood, Douglas Fir, Elm, Euonymus, Firethorn, Forsythia, Hackberry, Hawthorn, Hemlock, Hickory, Holly, Honey Locust, Horse Chestnut, Juniper, Larch Laurel, Lilac, Linden, London Plane, Magnolia, Manville, Maple, Mimosa, Mountain Ash, Myrtle, Oak, Pachysandra, Peach Pine, Pines, Planetree, Poplar, Privet, Quince, Spruce, Sycamore.

LAWNS, TURF AND TURFGRASS (including golf courses and athletic fields), such as: Bentgrass, Bermuda grass, Bluegrass, Centipede grass, Fescue, Rye grass, St. Augustine grass, Wheatgrass, Zoysia grass.

CHEMIGATION OF AMAZIN PLUS 1.2%ME

GENERAL INFORMATION

This product may be applied through drip (trickle) or sprinkle (solid set or hand move), flood (basin) or ebb and flow and hydroponic irrigation systems.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Dilute AMAZIN PLUS 1.2%ME with water before introduction into the system. Use the diluted mixture within 8 hours. Reduce pH of irrigation water if the pH exceeds 7.0 by using appropriate acidifying/buffering agent. The optimum pH for application is a range of 5.5 to 6.5. Agitation is necessary. Apply at the rate recommended in the Directions for Use using sufficient water to achieve an even distribution within an 8-hour period. Do not apply AMAZIN PLUS 1.2%ME at a rate that exceeds 20 grams active ingredient per acre (56.4 oz). If applying AMAZIN PLUS 1.2%ME in combination with other products, refer to the compatibility section elsewhere in the label.

OBSERVE THE FOLLOWING PRECAUTIONS IF CHEMIGATION SYSTEM IS CONNECTED TO A PUBLIC WATER SYSTEM

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of a year.

Chemigation systems connected to a public water system must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in the cases where there is not a water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (*e.g.* diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speeds favor drift beyond the area intended for treatment.

STATEMENTS CONCERNING THE OPERATION OF SPRINKLER CHEMIGATION OR DRIP (TRICKLE) UTILIZING A PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (*e.g.*, diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

STATEMENTS CONCERNING THE OPERATION OF FLOOD (BASIN) IRRIGATION UTILIZING GRAVITY FLOW OR PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEM

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements:

- a. The system must contain a functional interlocking check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of the fluid back toward the injection pump.
- c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f. Systems must use a metering pump, such as a positive displacement injection pump (*e.g.*, diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not re-use container.

PESTICIDE STORAGE: Do not store this product above 100°F or below 20°F for extended periods of time. Keep containers tightly closed and in original containers when not in use.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

STORAGE AND DISPOSAL FOR RESIDENTIAL USE

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not re-use container.

PESTICIDE STORAGE: Do not store this product above 100°F or below 20°F for extended periods of time. Keep containers tightly closed and in original containers when not in use.

PESTICIDE DISPOSAL: If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency or [toll free number which meets the criteria in paragraph II.E] for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL: If empty: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Place in trash or offer for recycling if available.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTANT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

Amazin is a registered trademark of Amvac Chemical Corporation

AMVAC Chemical Corporation
4100 E. Washington Boulevard
Los Angeles, CA 90023 U.S.A.



AMAZIN[®] 1.2% ME PLUS

Botanical insecticide, repellent, insect growth regulator and nematicide



For Use in Organic Production

ACTIVE INGREDIENT:

By Weight

Azadirachtin 1.2%

Inert Ingredients: 98.8%

TOTAL 100.0%

Contains 0.10 lb. (45.4 grams) of azadirachtin per gallon.

EPA Reg. No. 5481-559

EPA Est. No. 5481-CA-1

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

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.

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.

EMERGENCY INFORMATION

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES,

PHONE 24 HOURS A DAY:

Transportation: CHEMTREC 1-800-424-9300

Other: AMVAC 1-800-462-6822

For emergency information on Amazin Plus 1.2%ME, call the National Pesticides Information Center at 1-800-858-7378. 6:30 AM to 4:30 PM Pacific time (PT), seven days a week. During other times call the poison control center at 1-800-222-1222

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Prolonged or frequently repeated skin contact may cause allergic reactions on some individuals. Do not get in eyes or on clothing. Avoid contact with eyes, or clothing. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

SEE INSIDE BOOKLET FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

Net Contents: 1 Gallon



4100 E. Washington Blvd. • Los Angeles, CA 90023 U.S.A

1-888-462-6822



For Organic Use

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