

66330-69

10/28/2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

OCT 28 2009

W. A. Hawkins, Jr. Ph.D.
Arysta LifeScience
15401 Weston Parkway, Suite 150
Cary, NC 27513

SUBJECT: Label Amendment
Enzone
EPA Reg. No. 66330-69
Your Submission Dated July 8, 2009
Decision No. 418248

Dear Dr. Hawkins:

The amended labeling referred to above submitted in connection with registration under the Federal Insecticide Fungicide and Rodenticide Act (FIFRA), as amended, to allow use in New Mexico, is acceptable provided that you make the following labeling changes:

1. On page 1 in the Ingredient Statement, change "inert ingredients" to read "other ingredients."
2. On page 1, in the Ingredient Statement, change "3.4 lbs of active ingredient per gallon" to read "3.37".
3. On page 1 in the First Aid section, If on Skin or Clothing, the first sentence must read "Take off contaminated clothing."
4. On page 2, in the Personal Protective Equipment section the first sentence must read "Handlers, mixers/loaders and other persons coming into direct contact with treated water must wear:"
5. On page 2, in the Personal Protective Equipment section, the fourth bullet must read: "Protective eyewear, such as goggles, safety glasses, face shield". Also add this sentence to the end of the 5th bullet, "a full-face respirator substitutes for protective eyewear".

6. On page 2, in the User Safety Recommendations section, the second bullet must read "Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing."

7. On page 3, in the Storage and Disposal section, the subheading Storage must read "Pesticide Storage."

8. On page 4, in the Agricultural Use Requirements box, the last line the word "Hazardous" must be changed to "Hazards".

9. On page 6, in the Grapes section, the last sentence must read as follows: "DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT exceed maximum gallonage per acre per treatment."

10. On page 6, in both of the Grapes tables, add "N/A" to the Ground Injection section where there are "---."

11. On page 9, in the Buffer Zone Distance section, insert the following sentence which was omitted "Do not exceed 40 acres per treatment."

12. On page 9 in the Citrus table, add "N/A" to the Ground Injection section where there are "---."

13. On page 12, in the Almonds, Peaches, Prunes, and Plums (Fresh Prunes) table, add "N/A where there are "---."

Submit one copy of your final printed labeling before you release the product for shipment.

If you have any questions regarding this correspondence, contact Rose Kearns of my staff by phone at 703-305-5611 or via email at kearns.rosemary@epa.gov or myself at 703-308-9443 or via email at kish.tony@epa.gov.

Sincerely,



Tony Kish
Product Manager Team 22
Fungicide Branch
Registration Division (7505P)

ENZONE[®]

FUNGICIDE – INSECTICIDE – NEMATICIDE FUMIGANT

FOR USE ONLY IN THE STATES OF ARIZONA, CALIFORNIA, NEW MEXICO, OREGON, AND WASHINGTON

This labeling must be in the possession of the user at the time of pesticide application

Soil fumigant solution for management of nematodes and phytophthora root rot in established orange, grapefruit, lemon, almond, peach, prune, and plum (fresh prune) orchards; oak root fungus in established almond, peach, prune, and plum (fresh prune) orchards; nematodes and phylloxera in established grapes; nematodes, oak root fungus, and phytophthora root rot in orange, grapefruit, lemon, almond, peach, prune, and plum (fresh prune) preplant and replant sites; nematodes, phylloxera and oak root fungus in grape preplant and replant sites.

*Not for use in greenhouses or other enclosed areas.

ACTIVE INGREDIENT:	
Sodium tetrathiocarbonate	31.8%
INERT INGREDIENTS:	68.2%
TOTAL:	100.0%

Contains 3.4 pounds of active ingredient per gallon.
Density is 10.6 pounds of formulated product per gallon.

EPA Reg. No.: 66330-69

EPA Est. No.: _____

ACCEPTED
 with COMMENTS
 In EPA Letter Dated
 OCT 28 2009
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
 66330-69

KEEP OUT OF REACH OF CHILDREN

DANGER / PELIGRO

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

For Product Use Information Call 1-866-761-9397

FIRST AID	
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.
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 further 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.
If inhaled	<ul style="list-style-type: none"> • 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.

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HOT LINE 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 1-866-303-6952 for emergency medical treatment information

NOTE TO PHYSICIAN

This product will decompose rapidly in the stomach and release H₂S and CS₂. Probable mucosal damage may contraindicate the use of gastric lavage. Signs of systemic toxicity (headache, dizziness, nausea, and vomiting), if present, may be due to H₂S and CS₂, and should be managed accordingly.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident call CHEMTREC at 1-800-424-9300.

ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

Net Contents: _____

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER

CORROSIVE: Causes severe skin burns and eye irritation. Do not get in eyes, on skin, or on clothing. May be fatal if swallowed. Do not taste or swallow. Do not use the mouth to siphon from containers or blow clogged lines. Harmful if inhaled. Do not inhale vapors or spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators, persons coming into direct contact with treated water, and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants,
- Chemical-resistant footwear plus socks,
- Chemical-resistant gloves made of any waterproof material,
- Protective eyewear,
- Respirator equipped with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

Discard clothing and other absorbent materials that have been heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash PPE after each day's use.

ENGINEERING CONTROLS STATEMENTS: When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS:

Users should:

- 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 outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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ENVIRONMENTAL HAZARDS: Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwaters and rinsate.

PHYSICAL OR CHEMICAL HAZARDS: Do not mix with acids or oxidizing agents. Do not rinse equipment with water containing acid.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Do not store below 10° F (-12°C).

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Refillable container. 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 from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times

GENERAL INFORMATION

ENZONE® is a water soluble soil fumigant recommended for the management of plant parasitic nematodes, phylloxera, phytophthora root rot and oak root fungus. Applications are made by metering ENZONE into irrigation water or by ground injection. ENZONE controls only those pests that are in the wetted zone at the time of the treatment, but may not affect pests that migrate in or hatch after treatment. Multiple applications of this product in a single cropping season may be necessary to control the pests listed on this label. ENZONE is a non-systemic material that should be used as a management tool in a pest control program.

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 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. Read the entire label. Use this product only as specified on the label.

For use only in the states of Arizona, California, New Mexico, Oregon, and Washington.

Do not apply within two weeks prior to harvest. Do not use in areas adjacent to or draining to marine or estuarine waters.

When making applications to established trees or vines, the crop must be established in the field for at least one year prior to treatment, or injury may occur. Refer to specific crop application information on this label.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR 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 in this labeling about personal protective equipment (PPE), notification to workers, and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

ENTRY RESTRICTIONS: Entry (including early entry that would otherwise be permitted under the WPS) by any person – other than a correctly trained and equipped handler who is performing a WPS-defined handling task – is PROHIBITED from the start of application until 4 days after application.

NOTIFICATION: Notify workers of the application by warning them orally and by posting fumigant warning signs at entrances to treated areas. The signs must bear the skull and crossbones symbol and state: (1) "DANGER/PELIGRO," (2) "Area under fumigation, DO NOT ENTER/NO ENTRE," (3) the date and time of fumigation, (4) "[product name] Fumigant in use," and (5) name, address, and telephone number of the applicator." Post the fumigant warning sign instead of the WPS sign for this application, but follow all WPS requirements pertaining to location, legibility, size, and timing of posting and removal.

PPE FOR ENTRY DURING THE RESTRICTED PERIOD: PPE for handler entry that is permitted by the WPS is listed in the "Hazardous to Humans and Domestic Animals" section of this labeling.

CHEMIGATION

Refer to label section entitled **Chemigation Instructions** for chemigation use directions. Do not apply this product through any irrigation system unless the labeling on chemigation is followed. Do not apply ENZONE within 100 feet of a potable water well.

LOW-VOLUME IRRIGATION (Refer to Chemigation Instructions)

1. Soil should be near field capacity at the time of application. ENZONE treatments should not be made in the first irrigation following an extended period of time without any irrigation.
2. The irrigation system must be maintained properly. Prior to irrigation, the system should be checked to determine the uniformity of water flow. Any plugged emitters should be replaced.
3. Continuously meter ENZONE through irrigation system to maintain concentration for up to a 12 hour period (refer to CROP TABLES). Soil should not be wetted to the point of runoff during treatments. As irrigation schedules permit, up to a 21 day interval between applications is recommended (refer to CROP TABLES).
4. Continue irrigation 1-4 hours after lines and emitters are flushed clear of ENZONE solution in order to seal the soil.
5. Do not irrigate within 48 hours of the ENZONE application, or loss of effectiveness may result.
6. DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT allow injection time to fall below the recommended minimum. DO NOT exceed maximum gallonage per acre per treatment.

FLOOD AND FURROW IRRIGATION

1. Soil moisture should be just below field capacity for rapid penetration and uniform coverage of ENZONE treated water. For best results, pre-irrigation is recommended.
2. Continuously meter ENZONE to maintain concentration (see CROP TABLES) into a volume of water until uniform coverage has been achieved on all runs within the treatment area. Head of water must be sufficient to uniformly cover the treatment area within 6 hours of beginning application. Once

application is complete, and uniform coverage has been achieved, irrigation must be stopped to prevent dilution of ENZONE treated water. For best results, infiltration of the ENZONE treated water should occur within 2-3 hours of completion of application.

3. Length of run, head to tail, within the treatment area should not exceed one quarter mile.
4. Tailwater must not be allowed to leave the treated field. Water must be trapped at the end of the run or returned for recycling on the same field.
5. DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT allow injection time to fall below the recommended minimum and DO NOT exceed maximum gallonage per acre per treatment.
6. A 30 day minimum interval between applications is recommended except where other intervals are recommended in the CROP TABLES.

GROUND INJECTION EQUIPMENT (NOT FOR USE IN CA)

1. Soil should be thoroughly cultivated to break up clods. Apply ENZONE when the sub-surface soil moisture is near field capacity.
2. Inject ENZONE to a depth of 6 to 9 inches using 2 to 4 shanks on each side of the toolbar, spaced 12-16 inches apart. Immediately close shank marks with a press wheel or heavy roller. Alternative methods will be the use of a spray blade or spray rake for a subsurface broadcast treatment between the rows. The top 2-4 inches of soil should be relatively dry to ensure complete closure of shank marks.
3. Inject ENZONE along the plant row. It is recommended to treat at least 50% of the width of the row. Make one pass with the toolbar along each side of the row. With tree crops, the shanks should be centered under the dripline of the tree canopy. With vines, place the shank nearest the berm 12 to 18 inches from the trunk.
4. Begin irrigation immediately after application has been completed. Head of water must be sufficient to uniformly cover all runs in the treated area within 6 hours. As soon as uniform coverage has been achieved within the treated area, turn irrigation system off.
5. A 30 day minimum interval between applications is recommended except where other intervals are recommended in the CROP TABLES.

GALLONAGE CALCULATIONS

The effective use of this material is based on maintaining a desired concentration in parts per million of ENZONE's active ingredient (PPM A.I.) in the irrigation water for a specified length of time.

In order to maintain the desired concentration, the total number of gallons of ENZONE needed per acre must be determined prior to application. The number of gallons used per acre per treatment must fall within the gallons per acre (GAL/ACRE) range listed in the CROP TABLES.

The gallons per acre required per treatment depends on:

- Desired PPM A.I. per the CROP TABLE
- Number of hours ENZONE is injected (HRS INJECTION) per the CROP TABLES
- Irrigation flow rate in gallons per hour per acre (GPHAC)

The gallons per acre of ENZONE is calculated by using the following formula:

ENZONE GAL/ACRE = PPM A.I. x GPHAC x HRS. INJECTION

400,000

8018

CROP TABLES

GRAPES

For management of plant parasitic nematodes in established vineyards.

Begin treatments when soil temperature is a minimum of 58° F at 6 inches.

Early season: Apply after bud break.

Late season: Apply after harvest.

Depending on the age and condition of the crop, injury may occur when ambient air temperature exceeds 90° F for 5 hours on the day of application. Therefore, using the lowest concentration (PPM A.I.) listed in the table below is recommended.

Crop must be established in the field for at least one year prior to treatment or injury may occur.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ ACRE/TMT	#TMTs/ YR	MAX GAL/ ACRE/YR
Low Volume	950-1450	Up to 8	5-30	2-6	75
Flood & Furrow	250 - 500	Up to 6	20-60	1-3	100
Ground Injection (NOT IN CA)	---	----	25-50	1-2	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT exceed maximum gallonage per acre per treatment.

GRAPES

For management of grape phylloxera in established vineyards.

Treatments may be applied over the entire season.

Depending on the age and condition of the crop, injury may occur when ambient air temperature exceeds 90° F for 5 hours on the day of application. Therefore, using the lowest concentration (PPM A.I.) listed in the table below is recommended.

Crop must be established in the field for at least one year prior to treatment or injury may occur.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ ACRE/TMT	#TMTs/ YR	MAX GAL/ ACRE/YR
Low Volume	700-1450	Up to 8	5-30	2-6	75
Flood & Furrow	250 - 500	Up to 6	20-60	1-3	100
Ground Injection (NOT IN CA)	---	----	25-50	1-2	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT

GRAPES

Preplant Treatments Applied Through Low Volume and Surface Irrigation Systems

For management of plant-parasitic nematodes, grape phylloxera, and oak root fungus.

Make application 1-4 weeks before planting. Before treatment, remove dead or diseased plant material that may harbor pests. Cultivate, level, and excavate treatment area before application to ensure adequate and uniform water penetration. Install and test irrigation system to make sure it operates within efficiency standards. **Settle the soil with at least one irrigation before treatment.** Soil moisture should be at or near field capacity at the time of application. If using a low volume irrigation system, flush lines completely after the application and allow clear water to run through the system for one hour. **Irrigate at least once after treatment and before planting.** This irrigation should be made no less than 48 hours after an application. If 2 applications are made, they should be spaced 7-14 days apart. Do not plant earlier than 7 days after application or injury may occur. When planting, care must be taken to avoid mixing untreated soil from outside the treatment site with treated soil or lack of effectiveness may result. After initial treatment, maintenance applications should follow as recommended by this label. Recommended rates for the initial preplant treatment are listed below according to irrigation system.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ ACRE/TMT	#TMTs/ YR	MAX GAL/ ACRE/YR
Low Volume	2400	Up to 12	20-60	1-2	100
Flood & Furrow	950	Up to 6	30-60	1-2	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. **DO NOT** exceed maximum gallonage per acre per treatment.

Injection time should be as long as possible without causing excessive runoff and without exceeding the maximum gallons per acre listed above.

DO NOT treat existing vines that may be on the same irrigation system.

GRAPES

Individual Site treatments

Replant Situations: For management of plant-parasitic nematodes, grape phylloxera, and oak root fungus.

Refer to label recommendations regarding personal protective equipment (PPE) found under Precautionary Statements and Directions for Use before using ENZONE as an individual site treatment.

Make application 1-4 weeks before planting. Before treatment, remove dead or diseased vines and as much of the root system as possible from planting site. Cultivate site to break up clods and loosen soil. **Settle soil with an irrigation no more than one week prior to application.** Soil moisture should be at or near field capacity at the time of application. Immediately before applications, make a shallow basin around the planting site. Prepare ENZONE solution by mixing 0.5-2 gallons ENZONE in 100 gallons of water. Once ENZONE is thoroughly mixed with water, no further agitation is required. This solution must be used within 4 hours of mixing. Fill basin with diluted ENZONE solution sufficient to penetrate below the depth of the new root system. Depending on soil type and basin size, 5-40 gallons of diluted ENZONE solution is required per treatment site. **Irrigate at least once after treatment and before planting.** This irrigation should be made no less than 48 hours after an application. Do not plant earlier than 7 days after application or injury may occur. When planting, care must be taken to avoid mixing untreated soil from outside the treatment site with treated soil, or lack of effectiveness may result. After initial treatment, maintenance applications should follow as recommended by this label. Maximum gallonage per acre per year not to exceed 100 gallons of formulated ENZONE.

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CITRUS (Oranges, Grapefruit, Lemons)

For management of citrus nematode and phytophthora root rot in established orchards.

Begin treatments when soil temperature is a minimum of 58° F at 6 inches. Treatments may be applied over the entire season.

Depending on the age and condition of the crop, injury may occur when ambient air temperature exceeds 90° F for 5 hours on the day of application. Therefore, using the lowest concentration (PPM A.I.) listed in the table below is recommended.

Crop must be established in the field for at least one year prior to treatment or injury may occur.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ ACRE/TMT	#TMTs/ YR	MAX GAL/ ACRE/YR
Low Volume*	950-1950	Up to 8	5-30	2-4	50
Flood & Furrow	250-500	Up to 6	20-60	1-2	100
Ground Injection (NOT IN CA)	---	----	25-50	1-3	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT exceed maximum gallonage per acre per treatment.

*CALIFORNIA regulations require that for low volume irrigation using minisprinklers, misters, foggers, or jets, (EXCLUDING DRIP) the following BUFFER ZONES must be established for occupied structures adjacent to the treated area.¹

	BUFFER ZONE DISTANCE			
	10 Acres	20 Acres	30 Acres	40 Acres
5 Gal/acre	0 ft	0 ft	0 ft	0 ft
10 Gal/acre	0 ft	0 ft	0 ft	0 ft
15 Gal/acre	0 ft	0 ft	0 ft	35 ft
20 Gal/acre	0 ft	45 ft	70 ft	105 ft
25 Gal/acre	70 ft	120 ft	160 ft	205 ft
30 Gal/acre	130 ft	205 ft	260 ft	315 ft

¹ An occupied structure is defined as a building that may be occupied for any or all parts of a 24-hour period. This includes, but is not limited to: homes, hospitals, convalescent homes, schools, hotels, labor camps, and apartment complexes. This does not include buildings where people may work for limited periods of time, such as barns, equipment sheds, pump houses and workshops.

The homes occupied by the property owner (landlord) and the permittee (grower and/or authorized representative) are exempt from this requirement.

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CITRUS (Oranges, Grapefruit, Lemons)

Preplant Treatments Applied Through Low Volume and Surface Irrigation Systems

For management of citrus nematode, oak root fungus, and phytophthora root rot.

Make application 1-4 weeks before planting. Before treatment, remove dead or diseased plant material that may harbor pests. Cultivate, level, and excavate treatment area before application to ensure adequate and uniform water penetration. Install and test irrigation system to make sure it operates within efficiency standards. **Settle the soil with at least one irrigation before treatment.** Soil moisture should be at or near field capacity at the time of application. If using a low volume irrigation system, flush lines completely after the application and allow clear water to run through the system for one hour. **Irrigate at least once after treatment and before planting.** This irrigation should be made no less than 48 hours after an application. If 2 applications are made, they should be spaced 7-14 days apart. Do not plant earlier than 7 days after application or injury may occur. When planting, care must be taken to avoid mixing untreated soil from outside the treatment site with treated soil or lack of effectiveness may result. After initial treatment, maintenance applications should follow as recommended by this label. Recommended rates for the initial preplant treatment are listed below according to irrigation system.

Injection time should be as long as possible without causing excessive runoff and without exceeding the maximum gallons per acre listed above.

DO NOT treat existing trees that may be on the same irrigation system.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ ACRE/TMT	#TMTs/ YR	MAX GAL/ ACRE/YR
Low Volume*	2400	Up to 12	20-60	1-2	100
Flood & Furrow	950	Up to 6.	30-60	1-2	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT exceed maximum gallonage per acre per treatment.

*CALIFORNIA regulations require that for low volume irrigation using minisprinklers, misters, foggers, or jets, (EXCLUDING DRIP) the following BUFFER ZONES must be established for occupied structures adjacent to the treated area.¹

	BUFFER ZONE DISTANCE			
	10 Acres	20 Acres	30 Acres	40 Acres
20 Gal/acre	0 ft	45 ft	70 ft	105 ft
30 Gal/acre	130 ft	205 ft	260 ft	315 ft
40 Gal/acre	250 ft	375 ft	480 ft	570 ft
50 Gal/acre	380 ft	565 ft	720 ft	850 ft
60 Gal/acre	515 ft	720 ft	965 ft	1,140 ft

DO NOT exceed 40 acres per treatment.

¹ An occupied structure is defined as a building that may be occupied for any or all parts of a 24-hour period. This includes, but is not limited to: homes, hospitals, convalescent homes, schools, hotels, labor camps, and apartment complexes. This does not include buildings where people may work for limited periods of time, such as barns, equipment sheds, pump houses and workshops.

The homes occupied by the property owner (landlord) and the permittee (grower and/or authorized representative) are exempt from this requirement.

CITRUS (Oranges, Grapefruit, Lemons)

Individual Site Treatments

Replant Situations: For management of citrus nematode, oak root fungus, and phytophthora root rot.

Refer to label recommendations regarding personal protective equipment (PPE) found under Precautionary Statements and Directions for Use before using ENZONE as an individual site treatment.

Make application 1-4 weeks before planting. Before treatment, remove dead or diseased tree and as much of the root system as possible from planting site. Cultivate site to break up clods and loosen soil. **Settle soil with an irrigation no more than one week prior to application.** Soil moisture should be at or near field capacity at the time of application. Immediately before applications, make a shallow basin around the planting site. Prepare ENZONE solution by mixing 1-2 gallons ENZONE in 100 gallons of water. Once ENZONE is thoroughly mixed with water, no further agitation is required. This solution must be used within 4 hours of mixing. Fill basin with diluted ENZONE solution sufficient to penetrate below the depth of the new root system. Depending on soil type and basin size, 5-40 gallons of diluted ENZONE solution is required per treatment site. **Irrigate at least once after treatment and before planting.** This irrigation should be made no less than 48 hours after an application. Do not plant earlier than 7 days after application or injury may occur. When planting, care must be taken to avoid mixing untreated soil from outside the treatment site with treated soil, or lack of effectiveness may result. After initial treatment, maintenance applications should follow as recommended by this label. Maximum gallonage per acre per year not to exceed 100 gallons of formulated ENZONE.

ALMONDS, PEACHES, PRUNES, AND PLUMS (FRESH PRUNES)

Individual Site Treatments

Replant Situations: For management of plant parasitic nematodes, oak root fungus, and phytophthora root rot.

Refer to label recommendations regarding personal protective equipment (PPE) found under Precautionary Statements and Directions for Use before using ENZONE as an individual site treatment.

Make application 2-4 weeks before planting. Before treatment, remove dead or diseased tree and as much of the root system as possible from planting site. Cultivate site to break up clods and loosen soil. **Settle soil with an irrigation no more than one week prior to application.** Soil moisture should be at or near field capacity at the time of application. Immediately before applications, make a shallow basin around the planting site. Prepare ENZONE solution by mixing 0.5-2 gallons ENZONE in 100 gallons of water. Once ENZONE is thoroughly mixed with water, no further agitation is required. This solution must be used within 4 hours of mixing. Fill basin with diluted ENZONE solution sufficient to penetrate below the depth of the new root system. Depending on soil type and basin size, 5-100 gallons of diluted ENZONE solution is required per treatment site. Do not plant earlier than 14 days after application or injury may occur. **Settle the soil with at least one irrigation before planting.** When planting, care must be taken to avoid mixing untreated soil from outside the treatment site with treated soil, or lack of effectiveness may result. After initial treatment, maintenance applications should follow as recommended by this label. Maximum gallonage per acre per year not to exceed 100 gallons of ENZONE.

ALMONDS, PEACHES, PRUNES, AND PLUMS (FRESH PRUNES)

For management of plant-parasitic nematodes, oak root fungus, and phytophthora root rot in established orchards.

Begin treatments when soil temperature is a minimum of 58° F at 6 inches.

Early season: Apply February 1 through June 22

Late season: Apply after harvest.

Depending on the age and condition of the crop, injury may occur when ambient air temperature exceeds 90° F for 5 hours on the day of application. Therefore, using the lowest concentration (PPM A.I.) and the lowest gallonage (GAL/ACRE/TMT) listed in the table below is recommended.

Crop must be established in the field for at least one year prior to treatment or injury may occur.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ACRE/TMT	#TMTs/YR	MAX GAL/ACRE/YR
Low Volume*	950-1450	Up to 8	5-30	2-6	75
Flood & Furrow	250-500	Up to 6	20-30	1-3	90
Ground Injection (NOT IN CA)	---	----	25-50	1-3	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT exceed maximum gallonage per acre per treatment.

*CALIFORNIA regulations require that for low volume irrigation using minisprinklers, misters, foggers, or jets, (EXCLUDING DRIP) the following BUFFER ZONES must be established for occupied structures adjacent to the treated area.¹

	BUFFER ZONE DISTANCE			
	10 Acres	20 Acres	30 Acres	40 Acres
5 Gal/acre	0 ft	0 ft	0 ft	0 ft
10 Gal/acre	0 ft	0 ft	0 ft	0 ft
15 Gal/acre	0 ft	0 ft	0 ft	35 ft
20 Gal/acre	0 ft	45 ft	70 ft	105 ft
25 Gal/acre	70 ft	120 ft	160 ft	205 ft
30 Gal/acre	130 ft	205 ft	260 ft	315 ft

DO NOT exceed 40 acres per treatment.

¹ An occupied structure is defined as a building that may be occupied for any or all parts of a 24-hour period. This includes, but is not limited to: homes, hospitals, convalescent homes, schools, hotels, labor camps, and apartment complexes. This does not include buildings where people may work for limited periods of time, such as barns, equipment sheds, pump houses and workshops.

The homes occupied by the property owner (landlord) and the permittee (grower and/or authorized representative) are exempt from this requirement.

ALMONDS, PEACHES, PRUNES, AND PLUMS (FRESH PRUNES)

Preplant Treatments Applied Through Low Volume and Surface Irrigation.

For management of plant-parasitic nematodes, oak root fungus, and phytophthora root rot.

Make application 2-4 weeks before planting. Before treatment, remove dead or diseased plant material that may harbor pests. Cultivate, level, and excavate treatment area before application to ensure adequate and uniform water penetration. Install and test irrigation system to make sure it operates within efficiency standards. **Settle the soil with at least one irrigation before treatment.** Soil moisture should be at or near field capacity at the time of application. Flush lines completely after the application and allow clear water to run through the system for one hour. Irrigate at least once after treatment and before planting. This irrigation should be made no less than 48 hours after an application. Do not plant earlier than 14 days after application or injury may occur. **Settle the soil with at least one irrigation before planting.** When planting, care must be taken to avoid mixing untreated soil from outside the treatment site with treated soil or lack of effectiveness may result. After initial treatment, maintenance applications should follow as recommended by this label. Recommended rates for the initial preplant treatment are listed below according to irrigation system.

Injection time should be as long as possible without causing excessive runoff and without exceeding the maximum gallons per acre listed above.

DO NOT treat existing trees that may be on the same irrigation system.

METHOD	PPM A.I.	RECOMMENDED HRS. INJECTION	GAL/ ACRE/TMT	#TMTs/ YR	MAX GAL/ ACRE/YR
Low Volume*	2400	Up to 8	20-100	1	100
Flood & Furrow	950	Up to 6	30-100	1	100

DO NOT allow the concentration to drop below the minimum recommended PPM A.I. DO NOT exceed maximum gallonage per acre per treatment.

*CALIFORNIA regulations require that for low volume irrigation using minisprinklers, misters, foggers, or jets, (EXCLUDING DRIP) the following BUFFER ZONES must be established for occupied structures adjacent to the treated area.¹

	BUFFER ZONE DISTANCE			
	10 Acres	20 Acres	30 Acres	40 Acres
20 Gal/acre	0 ft	45 ft	70 ft	105 ft
30 Gal/acre	130 ft	205 ft	260 ft	315 ft
40 Gal/acre	250 ft	375 ft	480 ft	570 ft
50 Gal/acre	380 ft	565 ft	720 ft	850 ft
60 Gal/acre	515 ft	720 ft	965 ft	1,140 ft

DO NOT exceed 40 acres per treatment.

¹ An occupied structure is defined as a building that may be occupied for any or all parts of a 24-hour period. This includes, but is not limited to: homes, hospitals, convalescent homes, schools, hotels, labor camps, and apartment complexes. This does not include buildings where people may work for limited periods of time, such as barns, equipment sheds, pump houses and workshops.

The homes occupied by the property owner (landlord) and the permittee (grower and/or authorized representative) are exempt from this requirement.

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CHEMIGATION INSTRUCTIONS

Apply this product only through the following types of irrigation systems:

- Surface – flood (basin), furrow, border,
- Low Volume (ground or underground) drip, drip tape, strip tubing, foggers, jets, misters, minisprinklers.

Low volume emitters must fall within a pressure limit of 10 to 45 psi and a flow rate of 3 to 50 gph (gallons per hour). Based on these limits, the spray pattern and trajectory of the emitters will range from 10 to 15 feet in diameter and 0.5 to 1.5 feet in height.

Apply ENZONE only through the irrigation systems listed above that meet the pressure and flow rate guidelines specified above. **DO NOT APPLY** through equipment such as mosquito foggers, power misters, etc.

Do not apply when wind speed exceeds 10 mph.

Check irrigation system and emitters to ensure all systems are operating normally before injecting ENZONE. Crop injury or lack of effectiveness can result from nonuniform 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 safety devices for public water systems, prescribed below, are in place. In addition, check local and state regulations regarding pesticide injection into public water systems.

A person knowledgeable about 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.

Do not inject ENZONE into irrigation systems simultaneously with acids or chlorine.

Inject ENZONE into the irrigation system after the filter(s) or shut off the automatic back flush system in order to avoid back flushing of treated water.

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

Systems using a pressurized water and pesticide injection system must meet the following requirements.

- 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 also 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 which 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.

Use a pesticide supply tank when applying ENZONE. Do not dilute ENZONE more than 50% in the supply tank. Application must begin within 2 hours after mixing or lack of effectiveness may result.

Depending upon the type of injection system being used, premixing may not be necessary since ENZONE mixes well with water in the irrigation line.

POSTING

This sign is in addition to any sign posted to comply with the Worker Protection Standard.

Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any other public facilities not including public roads; or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses. Posting must conform to the following requirements:

- Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas.
- The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English. Signs must be posted prior to application and remain posted for 96 hours. Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.
- All words shall consist of letter at least 2.5 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background. At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP. Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of Arysta LifeScience North America, LLC ("Arysta"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.

Arysta warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to Arysta, and is subject to the inherent risks described above.

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