5481-519

2012



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

October 16, 2012

Christopher Davis Registration Manager Amvac Chemical Corporation 4695 MacArthur Court, Suite 1200 Newport Beach, CA 92660

Subject:

Amendment – Adding California DPR Restrictions Wisdom® Flowable EPA Reg. No. 5481-519 Your submission dated June 20, 2012

Dear Mr. Davis:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

- 1. On page 4 replace the heading "GENERAL APPLICATIONS INSTRUCTIONS" with "APPLICATIONS INSTRUCTIONS". Also replace the statement "Wisdom Flowable formulation mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on ... etc" with statement "Wisdom Flowable formulation mixes readily with water and other aqueous carriers, and controls listed insects and mites on ... etc".
- 2. On page 7 under Applications: Grass Areas replace "... to ensure efficacy of sub-surface pests including mole crickets, is recommended" with "... to ensure efficacy of sub-surface pests including mole crickets".

If you have any questions regarding this action, please contact BeWanda Alexander at <u>Alexander.bewanda@epa.gov</u> or (703) 305-7460.

lincerely. e Dianda Walander for Richard Gebken

Product Manager 10 Insecticide Branch Registration Division

RESTRICTED USE PESTICIDE

Toxic to Fish and Aquatic Organisms

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified Applicator's certification.

WISDOM[®] FLOWABLE

For use to control listed insect and mite pests in greenhouses and nurseries, as well as on golf courses and on ornamental and turf in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, golf courses, sod farms and athletic fields.

ACTIVE INGREDIENT:

Bifenthrin		
(2 methyl [1,1'-biphenyl] 3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-	•	
2,2-dimethyl-cyclopropanecarboxylate*		
INERT INGREDIENTS	000000	92°.1°
TOTAL	0 0	100.0%
*Cis isomers 97% minimum, trans isomers 3% maximum.	000000 0 0 0 0 0 0 0 0	- 20 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2

Wisdom Flowable contains 2/3 pound active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

	FIRST AID
If swallowed:	• 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 a poison control center or doctor.
	• Do not give anything by mouth to an unconscious person.
If inhaled:	• Move person to fresh air.
	• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
·	Call a poison control center or doctor for further treatment advice.
If on skin or	Take off contaminated clothing.
clothing:	• Rinse skin immediately with plenty of water for 15-20 minutes.
· · ·	Call a poison control center or doctor for treatment advice.
If in eyes:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes.
•	• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
	Call a poison control center or doctor for treatment advice.
	EMERGENCY INFORMATION
Have the product of	ontainer or label with you when calling a poison control center or doctor, or going for treatment. FOR
THE FOLLOWIN	G EMERGENCIES, PHONE 24 HOURS A DAY:
For Medical Emerg	gencies, one:1-888-681-4261
For Transportation	Emergencies, including spill, leak or fire, phone: CHEMTREC1-800-424-9300
For Product Use In	formation phone : AMVAC1-888-462-6822

NOTE TO PHYSICIAN

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils or alcohol may increase absorption and so should be avoided. SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-519 EPA Est. No.

Made in U.S.A.

4100 E. Washington Blvd. Los Angeles, CA 90023 U.S.A 1-888-462-6822 Net Contents: As Marked on Container ACCEPTED with COMMENTS In EPA Letter Dated OCT 16 2012 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5481-519

519-20120620r10_Wisdom Flowable Ca Amendment

Page 1 of 12

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Caution: Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing dust (vapor or spray mist). Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using toilet. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

Applicators and Other Handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.
- Shoes plus socks.

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton.
- Shoes plus socks
- Protective eyewear

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.

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

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and aquatic invertebrates. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

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

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

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

519-20120620r10_ Wisdom Flowable Ca Amendment

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.

Do not apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds (please see Special Restriction in the State of New York in the Application Recommendations section of this label). When treating tall trees (> 15 feet) from the ground with high pressure sprays or during any application with air assisted equipment (mist blower) do not apply within 150 feet of aquatic areas.

Do not apply this product through any kind of irrigation system.

Do not apply by air.

Apply with ground equipment only.

Do not apply when wind direction favors downwind drift towards nearby water bodies.

Do not apply when wind velocity exceeds 10 mph.

Avoid application when wind gusts approach 10 mph.

Do not apply when a temperature inversion exists.

Apply using the largest nozzle size compatible with adequate coverage.

Do not apply if rain is expected within 12 hours (or whatever time is necessary for the spray to dry)

Do not water treated area to the point of run-off.

Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

Additional Application Restrictions for Residential Outdoor Surface and Space Sprays: All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- (1) Treatment to soil or vegetation around structures;
- (2) Applications to lawns, turf, and other vegetation;
- (3) Applications to building foundations, up to a maximum height of 3 feet.

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

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 on this label about personal protective equipment (PPE) and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry to treated areas during the restricted entry interval (REI) of 12 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

• Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or neoprene rubber or polyvinyl chloride or viton.

Shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box 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 and greenhouses. Keep children and pets off treated areas following application until the lawn has dried.

GENERAL APPLICATIONS STRUCTIONS

Wisdom Flowable formulation mixes readily with water and other aqueous carriers, and controls a wide spectrum of insects and mites on ornamentals, trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and interiorscapes including hotels, shopping malls, office buildings, etc., and, outdoor plantscapes, such as around residential dwellings, parks, institutional, public, commercial and industrial buildings, recreational, athletic fields, home lawns, golf courses and sod farms. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

Wisdom Flowable may be tank-mixed with other products, including insect growth regulators. When tank mixing, Wisdom Flowable with other products, observe all preclutions and limitations on each separate product label. The physical compatibility of Wisdom Flowable may vary with different sources of pesticide products and local cultural practices. Any tank mixtures which has not been previously tested should be prepared on a small scale (pint or quart jar) using the proper proportions of chemicals and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions: (1) Add wettable powders to tank water, (2) Agitate, (3) Add liquids and flowables, (4) Agitate, (5) Add emulsifiable concentrates, and (6) Agitate. If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water. Note: If the tank mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

Maximum rates (Except Nursery): Do not apply more than 0.1 lb ai/acre (20 fl oz Wisdom Flowable) in a single application, no more than 0.2 lb ai/acre/year (40 fl oz Wisdom Flowable) for outdoor applications.

Note: For large infestations of ants, imported fire ants, and mole crickets, a single application of 0.2 lb ai/acre (40 fl oz Wisdom Flowable) may be applied once per year.

Resistance: Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

New York State Restrictions:

NOT FOR USE ON SOD FARMS IN THE STATE OF NEW YORK.

In New York State, this product may not be applied to turf within 100 feet of a coastal marsh (or of a water body [lake, pond, river, stream, wetland, or drainage ditch].)

In New York State, do make a single repeat application of this product if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Applications: Landscape Ornamentals, Greenhouses, Nurseries, Sod Farms, Golf Courses and Home Lawn Uses (Including Interiorscapes, Plantscapes, and Ornamental Plantings Grown for Aesthetic Purpose).

PLICATION RATES FOR LANDSCA ORNAMENTALS AND GREENHOUSES

Pest	Rate lb. ai/ 10 gal.	Rate oz./ 10 gal.	Comments	
Ants	0.004 to 0.02	0.80 to 4.0	Apply the specified rate of Wisdom Flowable as	
Aphids			a full coverage foliar spray. Repeat as necessary	
Bagworms			to achieve control using higher rates as pe	
Blackvine Weevil			pressure and foliage area increases.	
Brown Soft Scales	· · ·			
Broad Mites		-	To control Bagworm: Apply when larvae begin	
Budworms			to hatch. Spray larvae directly. Applications	
California Red Scale (Crawlers)			made when larvae are young will be most	
Centipedes			effective.	
Clover Mites				
Crickets			To control scale crawlers and twig borers: Treat	
Cutworms			trunks, stems, and twigs in addition to plant	
Earwigs	<i>,</i> .		foliage.	
Elm Leaf Beetles			-	
Fall Webworms			Certain cultivars may be sensitive to the final	
Flea Beetles			spray solution. A small number of plants should	
Fungus Gnats	-		be treated prior to application of the entire	
Grasshoppers	*		planting.	
Lacebugs				
Leafhoppers	,i		Use of an alternate class of chemistry in a	
Leaf Feeding Caterpillars	,		treatment program is recommended to prevent	
Mealybugs			or delay pest resistance.	
Millipedes				
Orchid Weevil			λ	
Pillbugs				
Pine Needle Scales (crawlers)				
Plant Bugs (incl. Lygus spp.)				
San Jose Scales (crawlers)				
Sowbugs				
Spiders				
Tent Caterpillars				
Tip Moths				
Weevils				
Whiteflies				
European Crane Flies	0.005	1.0		
Citrus Thrips	0.006 to 0.02	1.2 to 4.0	· · ,	
Beet Armyworm				
European Red Mite				
Leafrollers				
Spider Mites				
Thrips			· · · ·	
Twig Borers		1		
Japanese Beetles (adult)	0.01 to 0.02	2.0 to 4.0	1	
Leafminers				
Pecan Leaf Scorch Mite				

Maximum Nursery Rates: Do not apply more than 0.2 lb ai/acre (40 fl oz of Wisdom Flowable) in a single application or per year for outdoor applications.

Nursery Dilution Chart

10

	· · · · ·				
Application	Applicon		Fluid Ounces of	dom Flowable	· · ·
Volume	Rate	Diluted to these Volumes of Finished Spray			ay
Gallons Per	Pounds AI	1	25	50	100
Acre	Per Acre	Gallon	Gallons	Gallons	Gallons
50	0.025	0.1	2.5	5.0	10.0
50	0.05	0.2	5.0	10.0	20.0
50	0.1	0.4	10.0	20.0	.40.0
50	0.2	0.8	20.0	40.0	80.0
100	0.025	0.05	1.25	2.5	5.0
. 100	0.05	0.1	2.5	5.0	10.0
100	0.1	0.2	5.0	10.0	20.0
100	0.2	0.4	10.0	20.0	40.0
150	0.025	0.03	0.83	1.67	3.3
150	0.05	0.07	1.67	3.33	6.7
150	0.1	0.133	3.33	6.67	13.3
150	0.2	0.266	6.67	13.33	26.7
200	0.025	0.025	0.63	1.25	2.5
200	0.05	0.05	1.25	2.5	5.0
200	0.1	0.1	2.5	5.0	10.0
200	0.2	0.2	5.0	10.0	20.0
250	0.025		0.5	1.0	2.0
250	0.05		1.0	2.0	4.0
250	0.1		2.0	4.0	8.0
250	0.2	·	4.0	8.0	16.0
300	0.025		0.42	0.83	1.7
300	0.05		0.83	1.67	3.3 ·
300	0.1		1.67	3.33	6.7
300	0.2		3.33	6.67	13.3

*To convert to milliliters, multiply by 29.57.

1 fl oz = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Wisdom Flowable.

Formula for Determining the Active Ingredient Content of the Finished Spray Mixture: The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing Wisdom Flowable.

(7.9)(fl oz of Wisdom Flowable added to tank) (Gallons of finished spray mix)(128)

= Percent active Ingredient of spray

···.		Turf Dil	ution Char	t	,	
Application	Application	Fluid Ounces*	of Wisdom Flow	able Diluted to	these Volumes	of Finished
Volume	Rate	Spray			1	
Gallons Per	Pounds	-1	10	25	50	100
1,000 sq ft	AI/Acre	Gallon	Gallons	Gallons	Gallons	Gallons
0.5	0.05	0.5	5.0	12.5	25.0	50.0
0.5	0.1	1.0	10.0	25.0	50.0	100.0
0.5	0.2	2.0	20.0	50.0	100.0	200.0
0.75	0.05	0.33	3.33	8.33	16.67	33.33
0.75	0.1	0.67	6.67 [·]	16.67	33.33	66.67
0.75	0.2	1.33	13.33	33.33	66.67	133.33
1	0.05	0.25	2.5	6.25	12.5	25.0
1	0.1	0.5	5.0	12.5	25.0	50.0
· 1	0.2	1.0	10.0	25.0	50.0	100.0
1.5	0.05	0.17	1.67	4.17	8.33	16.67
1.5	0.1	0.33	3.33	8.33	16.67	33.33
1.5	0.2	0.67	6.67	16.67	33.33	66.67
2	0.05	0.13	1.25	3.13	6.25	12.5
2 2	0.1	0.25	2.5	6.25	12.5	25.0
2	0.2	0.5	5.0	12.5	25.0	50.0
2.3ª	0.05	0.11	1.09	2.72	5.43	10.87
2.3ª	0.1	0.22	2.17	5.43	10.87	21.74
2.3ª	0.2	0.43	4.35	10.87	21.74	43.48
3	0.05		0.83	2.09	4.17	8.33
3	0.1	0.17	1.66	4.17	8.33	16.67
3	0.2	0.33	3.33	8.33	16.67	33.33
4	0.05		0.63	1.56	3.13	6.25
4 [°]	0.1	0.13	1.25	3.13	6.25	12.5
4	0.2	0.25	2.5	6.25	12.5	25.0

*To convert to milliliters, multiply by 29.57.

^a 100 gallons per acre.

1 fl oz = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Wisdom Flowable.

Applications: Grass Areas (including golf courses, sod farms, home lawns, lawn areas around parks, institutional, public, commercial and industrial buildings, recreational and athletic fields).

Apply Wisdom Flowable as a surface or sub-surface treatment. Use application volumes of up to 10 gallons per 1000 square feet to get uniform coverage when treating dense and or long grass foliage.

For low volume applications, less than 2 gallons/1000 square feet, immediate irrigation of treated area with at least 0.25 inches of water following application to ensure efficacy of sub-surface pests including mole crickets, is recommended.

Application to Home Lawns: Apply Wisdom Flowable as a broadcast treatment in 2 to 10 gallons of carrier per 1,000 square feet. Use higher volumes to get uniform coverage when treating dense grass foliage.

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LAWN APPLICATION RATES

Pest	Wisdom Flowable	Comments
Ants	0.23 to 0.46 oz. per 1,000 sq. ft.	*For control of over-wintered Mole Crickets
Armyworms	· ·	apply Wisdom Flowable at the lower rate
Bluegrass Billbugs	-or-	early Spring. For the control of adult Mole
Chinchbugs		Crickets in late-Summer or early Fall apply
Crane Flies	10 to 20 oz. per Acre	the higher rate.
Crickets (Mole)*		
Cutworms	-or-	To enhance control a non-ionic surfactant or
Earwigs		a silicon based surfactant (0.25% w/v) may
Fall Webworms	0.05 to 0.1 lbs. AI per Acre	be applied as a tank-mix for the control of
Fleas	· · · ·	late Summer or Fall Adult Mole Crickets.
Grasshoppers		For best results irrigate immediately after
Mites		application with a minimum of 0.25 inches of
Sod Webworms		water.
Ticks		
Imported Fire Ants	0.46 to 0.92 oz. per 1,000 sq. ft.	· .
Japanese Beetles (adult)	_	
	-or-	
:	20 to 40 oz. per Acre	

Imported Fire Ant Quarantine Treatment

Against Imported Fire Ants (IFA) in Potting Media (including balled and conainerized nursery grown ornamental trees, shrubs, plants, flowers, conifers, bushes, Christmas trees, and non-bearing fruit and nut trees). Wisdom Flowable is approved and can be used in accordance with the USDA Imported Fire Ant Quarantine Program. Wisdom Flowable may be applied either soil incorporated, as a topical application, or as a high volume drench treatment.

Soil Incorporation: Incorporate the appropriate volume of Wisdom Flowable (see table below) per cubic yard of potting media by diluting it in water (typically 1 quart to 1 gallon per cubic yard of media) and sprinkling or spraying it onto the media. The applications are based on the dry bulk density of the potting media. When used in accordance with USDA guidelines, this application will provide a 6 month certification period.

Rate Wisdom Flowable in	Wisdom Flowable/Gallons of Finished Spray				
oz. (lbs. AI)/10 gals.	1 gal.	3 gal.	5 gal.	25 gal.	100 gal.
0.80 (0.004)		1/4	1/2	2	8
1.20 (0.006)	1/8	1/3	2/3	3	12
2.0 . (0.010)	1/4	2/3	1	5	20
4.0 (0.020)	1/2	1 1/3	2	10	40

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•	Soil Incorporation Rate of Wi	m Flowable for Control of IFA in Potti.	Aedia
	Dotting Modio		

Potting Media Bulk Density (lbs cubic yard)	Fluid Ounces of Wisdom Flowable in one cubic yard
200	1.9
400	3.8
600	5.7
800	7.6
1000	9.5
1200	11.4
1400	13.3

Use proportional amounts of Wisdom Flowable for potting media with bulk densities not listed.

Topical Application: Mix Wisdom Flowable in 1,000 ounces of water based on container size and bulk density of the potting media (see table below). Apply one (1) ounce of the mix to each container evenly distributed over the surface of the potting media. Irrigate all treated containers with 1.5 inches of water following application. When used in accordance with USDA guidelines, this application will provide a 6 month certification period.

Topical Drench Application Rates of Wisdom Flowable for Control of IFA in Potting Media

Potting Media Bulk Density		f Wisdom Flowable ounces of water
(lbs cubic yard)	3 Qt. Container	4 Qt. Container
. 200	3.6	5.2
400	7.2	10.4
600	10.8	15.6
800	14.4	20.8
- 1000	18.0	26.0
1200	21.6	31.2
1400	25.2 \	36.4

Use proportional amounts of Wisdom Flowable for potting media with bulk densities not listed.

High Volume Drench: Apply Wisdom Flowable as a high volume drench by mixing the appropriate amount of product based on the bulk density in 100 gallons of water (see table below). Apply mix to individual containers to the point of saturation. The amount of mix used for each plant is generally 1/5 the volume of the container. When used in accordance with USDA guidelines, this application will provide a 6 month certification period.

High Drench Application Rate of Wisdom Flowable for Control of IFA in Potting Media

Potting Media Bulk Density (lbs cubic yard)	Fluid Ounces of Wisdom Flowable in 100 Gallons	
200	2.4	
400	4.8	
600	7.2	
800	9.6	
1000	12.0	
1200	14.4	
1400	16.8`	

Use proportional amounts of Wisdom Flowable for potting media with bulk densities not listed.

Larval Control In Potting Media of Containerized Plants

Black Vine Weevil Larval Control – Preventative Treatment – Topical Drench: For preventative control of black vine weevil larvae in containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb AI) per 100 gallons and apply as a drench at the rate of 4 to 8 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for conainers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container. Diluting 10 fluid ounces of Wisdom Flowable per 100 gallons and applying 8 fluid ounces of finished spray per 6 inch (diameter) container will provide black vine weevil larval control for one growing season when the application is made in the spring. Diluting 20 to 40 fluid ounces of Wisdom Flowable per 100 gallons and applying 8 fluid ounces of finished spray per 6 inch (diameter) container will provide black vine weevil larval control for two growing seasons when the application is made in the spring.

White Grub Control – Preventative Treatment – Topical Drench: For preventative control of white grubs (including Japanese beetle, oriental beetle and European chafer) in containerized plants, dilute Wisdom Flowable at the rate of 40 to 80 fl. ozs. (0.2 to 0.4 lb AI) per 100 gallons and apply as a drench at the rate of 4 to 8 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for conainers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container. Use the higher application rate for a longer period of control.

Black Vine Weevil and White Grub Larval Control – Preventative Treatment – Media Incorporation: For preventative control of black vine weevil and white grub larvae in containerized plants, incorporate the appropriate volume of Wisdom Flowable (see table below) per cubic yard of potting media by diluting it in water (typically 1 quart to 1 gallon per cubic yard of media) and sprinkling or spraying it onto the media. Use the higher application rates for longer periods of control.

Potting Media	Fl	Fluid Ounces of Wisdom Flowable in one cubic yard				
Bulk Density				•		
(lbs. per cubic	* .	1				
yard)	10 PPM	15 PPM	20 PPM	25 PPM		
200	0.4	0.6	0.8	1.0		
300	0.6	0.9	1.2	1.5		
400	0.8	1.2	1.6	2.0		
500	1.0	1.5	2.0	2.5		
600	1.2	1.8	2.4	3.0		
700	1.4	2.1	2.8	3.5		
800	1.6	2.4	3.2	4.0		
900	1.8	2.7	3.6	4.5		
1000	2.0	3.0	4.0	5.0		

The application rates listed above are based on the dry bulk density of the potting media. Use proportional volumes of Wisdom Flowable for potting media with dry bulk densities that are not listed above.

Black Vine Weevil Larval Control – Curative Treatment – Topical Drench: To control black vine weevil larvae infesting containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb AI) per 100 gallons and apply as a drench at the rate of 8 to 16 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container.

Bare-root Treatment of Preventative Root Weevil Larval Control: To protect treated roots of field grown nursery stock from feeding by rootweevil larvae, dilute one gallon of Wisdom Flowable in 100 gallons of water and treat the bare roots of plants that are being transplanted into the field either by dipping the roots into the insecticide solution for ten seconds or by spraying the insecticide solution onto the roots.

Diaprepes Weevil Larval Control – Curative Treatment – Topical Drench: To control *Diaprepes* weevil larvae infesting containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb AI) per 100 gallons and apply as a drench at the rate of 8 to 16 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container.

Fungus Gnat Larval Control – **Preventative Treatment** – **Topical Drench:** For preventative control of fungus gnat larvae in containerized plants, dilute Wisdom Flowable at the rate of 20 to 40 fl. ozs. (0.1 to 0.2 lb AI) per 100 gallons and apply as a drench at the rate of 4 to 8 fl. ozs. of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for container less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container. Use the higher application rate for a longer period of control.

Fungus Gnat Larval Control – Curative Treatment – Topical Drench: To control fungus gnat larvae infesting containerized plants, dilute Wisdom Flowable at the rate of 10 to 40 fl. ozs. (0.05 to 0.2 lb AI) per 100 gallons and apply as a drench at the rate of 8 to 16 fluid ounces of finished spray per 6 inch (diameter) container. Use a proportional volume of finished spray for containers less than or greater than 6 inches in diameter. Ideally, the media should be treated to the point of saturation, which generally requires 1/5 the volume of the container.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call AMVAC: 1-323-264-3910.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for Guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. 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 ¹/₄ 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 by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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 CONSISTENT 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.

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3