



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

5481-683

Date of Issuance:

8/31/22

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Wisdom G LN

Name and Address of Registrant (include ZIP Code):

Niamh McMahon
AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA).

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Continues page 2

Signature of Approving Official:

Jacquelyn Herrick, Product Manager 03
Invertebrate and Vertebrate Branch 1, Registration Division
(7505P)

Date:

8/31/22

2. You are required to comply with the data requirements described in the generic data call-in (GDCI) identified below:
 - a. Bifenthrin GDCI-128825-902
 - b. Bifenthrin GDCI-128825-1159
 - c. Bifenthrin GDCI-128825-1114

You must comply with all of the data requirements within the established deadlines. If you have questions about the GDCI listed above, you may contact the Chemical Review Manager in the Pesticide Re-Evaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 5481-683.”
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 5/12/2021
- Alternate CSF 1 dated 4/26/2022
- Alternate CSF 2 dated 5/12/2021
- Alternate CSF 3 dated 5/12/2021
- Alternate CSF 4 dated 4/26/2022
- Alternate CSF 5 dated 5/12/2021

If you have any questions, please contact Elizabeth Andrews at 202-566-2467 or at Andrews.Elizabeth@epa.gov.

Enclosure

ACCEPTED
08/31/2022
 Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5481-683

BIFENTHRIN	GROUP	3A	INSECTICIDE
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WISDOM® G L/N

For control of listed pests on non-agricultural use sites including lawns and building perimeters (residential, institutional, public, commercial, and industrial sites), athletic fields, recreational areas, parks, and cemeteries.

For control of listed pests on agricultural use sites including nurseries and sod farms.

For use as a USDA APHIS approved quarantine treatment for control of Imported Fire Ants in containerized nursery stock.

For outdoor use only

{Optional or Alternate Wording: One 25 pound bag treats ¼ acre (10,890 square feet) when applied at the maximum rate on residential lawns; One 50 pound bag treats 1/2 acre (21,780 square feet) when applied at the maximum rate on residential lawns}

ACTIVE INGREDIENT:	By Weight
Bifenthrin*	0.2%
OTHER INGREDIENTS	99.8%
TOTAL	100.0%

**Cis isomers 97% minimum, trans isomers 3% maximum.*

KEEP OUT OF REACH OF CHILDREN
CAUTION

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.
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:	
For Medical Emergencies, phone:.....1-888-681-4261	
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®1-800-424-9300	
For Product Use Information, phone: AMVAC®1-888-462-6822	
NOTE TO PHYSICIAN	
This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.	

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-XXX
EPA Est. No.

Net Contents: _____

{Made in USA}



AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660 U.S.A.
1-888-462-6822

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Waterproof gloves.
- Shoes and socks.

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 extremely toxic to fish and aquatic invertebrates. Do not apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 it to drift to blooming crops or weeds if bees are visiting the treatment area.

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

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.

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.

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 interval. 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 into 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,
- Waterproof gloves.
- 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 people and pets off treated areas until application is completed or, if irrigated, until the treated area has dried.

For control of listed pests on non-agricultural use sites including lawns and building perimeters (residential, institutional, public, commercial and industrial sites), athletic fields, recreational areas, parks and cemeteries as well as listed agricultural use sites including nurseries and sod farms.

For outdoor use only.

- Not for use on golf courses or on grass grown for seed.
- Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds.
- Do not spread the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or 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.
- Do not make applications during rain. Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- Do not apply when the wind speed is greater than 15 mph.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except for a spot or crack and crevice treatment.
- Do not irrigate to the point of runoff.
- Do not apply by air.

Do not apply more than 0.2 lb. active ingredient (a.i.) per acre (100 lbs. WISDOM G L/N per acre) per application on residential use sites (i.e., around private homes, apartment buildings, condominiums, non-agricultural outbuildings,

non-commercial greenhouses, pre-schools or day care facilities). May be applied at up to 0.4 lb. a.i. (200 lbs. WISDOM G L/N) per acre per application on non-residential use sites (i.e., around institutional, public, commercial or industrial buildings; parks; recreational areas or athletic fields).

Do not broadcast apply more than 0.4 lb. a.i. (200 lbs. WISDOM G L/N) per acre per year.

Water treated area as directed on this label. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run-off to water bodies or drainage systems.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

1. Application to pervious surfaces such as soil (including potting media), lawn, turf, and other vegetation
2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (*e.g.*, soil, mulch, or lawn)

Spot treatments must not exceed two square feet in size (for example, 2ft. by 1 ft or 4 ft. by 0.5 ft.).

Resistance Management

For resistance management, WISDOM G L/N contains bifenthrin, a Group 3 insecticide. Any insect population may contain individuals naturally resistant to WISDOM G L/N and other Group 3 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same locations. Appropriate resistance management strategies should be followed.

To delay insecticide resistance, take one or more of the following steps:

- Rotate the use of WISDOM G L/N or other Group 3 insecticides within the year with different groups that control the same pests.
- Adopt an integrated insect management program for insecticide use that includes scouting, uses historical information related to pesticide use record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or pest control advisor for any additional pesticide resistance-management and/or IPM recommendations for specific site and pest problems in your area.

For further information or to report suspected resistance contact AMVAC at (1-888-462-6822). You can also contact your pesticide distributor or university extension specialist to report resistance.

LAWN AND PERIMETER APPLICATIONS

LAWN APPLICATION: Broadcast WISDOM G L/N with suitable application equipment to ensure uniform coverage over the treatment area.

APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, WISDOM G L/N may be applied at up to 0.4 lb. a.i. (200 lbs. WISDOM G L/N) per acre to control each of the pests listed in this Table. For residential lawn use, do not apply more than 0.2 lb. a.i. (100 lbs. WISDOM G L/N) per acre per application.

For applications at rates above 0.34 lb. a.i./A (170 lbs. WISDOM G L/N per acre), users must water the treated area immediately after application.

PEST	ACTIVE INGREDIENT lb. a.i./A	APPLICATION RATE WISDOM G L/N	
Armyworms ¹ Cutworms ¹ Sod Webworm ¹	0.1	50 lbs. per acre	1.15 lbs. per 1000 sq. ft.
Annual Bluegrass Weevil (<i>Hyperodes</i>) (Adult) ² Billbugs (Adult) ³ Black Turfgrass Ataenius (Adult) ⁴ Leafhoppers Mealybugs	0.1 – 0.2	50 - 100 lbs. per acre	1.15 – 2.3 lbs. per 1000 sq. ft.
European Crane Fly (larvae)	0.15 – 0.3	75 – 150 lbs. per acre	1.72 – 3.44 lbs. per 1000 sq. ft.
Ants Centipedes Chinch Bugs ⁵ Fleas (Larvae) ⁶ Fleas (Adults) Imported Fire Ants (Adult) ⁷ Imported Fire Ants (Mounds) ⁷ Millipedes Mole Cricket (Adult) ⁸ Mole Cricket (Nymph) ⁹ Ticks ¹⁰	0.2 – 0.4	100 – 200 lbs. per acre	2.3 – 4.6 lbs. per 1000 sq. ft.
Pillbugs Sowbugs	0.4	200 lbs. per acre	4.6 lbs. per 1000 sq. ft.

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

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

COMMENTS

¹**Armyworms, Cutworms, and Sod Webworms:** To ensure optimum control, irrigate the treated area with up to 0.1 inch of water immediately after application to activate (release from the granule) the insecticide.

²**Annual Bluegrass Weevil (*Hyperodes*) adults:** Time applications to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing. Summer applications will help suppress first and second generation adults.

³**Billbugs:** Apply when adult billbugs are first observed during April and May. Degree day models have been

developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of overwintered chinch bugs.

⁴Black Turfgrass Ataenius adults: Apply during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. Time the May application to coincide with the full bloom stage of Vanhoutte spiraea (*Spiraea vanhouttei*) and horse chestnut (*Aesculus hippocastanum*). Time the July application to coincide with the blooming of Rose of Sharon (*Hibiscus syriacus*).

⁵Chinch Bugs: Chinch bugs infest the base of grass plants and are often found in the thatch layer. Irrigate the treated area with up to 0.25 inch of water immediately after application to activate (release from the granule) the insecticide. Chinch bugs can be one of the most difficult pests to control in grasses and the higher labeled rates may be required to control populations that contain both nymphs and adults during the summer.

⁶Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Irrigate the treated area with up to 0.5 inch of water immediately after application to activate (release from the granule) the insecticide.

⁷Imported Fire ants: Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application. For broadcast treatments apply up to 0.4 lb. a.i./A. Treat mounds by diluting 1 teaspoon of Wisdom TC Flowable (EPA Reg. No. 5481-520) formulation per gallon of water and applying 1 to 2 gallons of finished dilution per mound. Treat the mounds with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. Also treat a four-foot diameter circle around the mound. For best results, apply in cool weather (65 – 80° F) or in early morning or late evening hours.

Note: A spray rig that is calibrated to apply 0.1 lb. a.i./A (20 ozs.) of Wisdom TC Flowable (EPA Reg. No. 5481-520) in 2.5 gallons of water per 1,000 square feet contains the approximate dilution (1 teaspoon per gallon) that is required for fire ant mound drenches. *Application of 125 lbs./A of WISDOM G L/N will provide six months residual activity for control of foraging Imported Fire Ants and newly mated fly-in queens.

*Not applicable in California.

⁸Mole Cricket adults: Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Apply as late in the day as possible and water in with up to 0.5 inch of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Treat grass areas that receive pressure from adult mole crickets at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

⁹Mole Cricket nymphs: Treat grass areas that received intense adult mole cricket pressure in the spring immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Apply as late in the day as possible and water in with up to 0.5 inch of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

¹⁰Ticks: Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat as necessary to maintain adequate control. Do not allow public use of treated areas during application.

Deer Ticks (*Ixodes sp.*) have a complicated life cycle that ranges over a two year period and involves four life stages. Apply in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

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

PERIMETER APPLICATION

Apply to ground area up to 7 feet wide around and adjacent to the structure. Ensure thorough coverage of treated surfaces. Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios.

Boundary Applications: Apply to soil areas, ornamental gardens, pavement crevices, fencelines, planter areas, vegetation areas and mulch areas. Treat surfaces to ensure thorough coverage but avoid runoff from irrigation. To treat insects harbored in cracks-and-crevices, applications must be made in such a manner to avoid runoff onto untreated structural surfaces and plants from irrigation.

Appl. Rate: Pounds Per 1,000 sq. ft.	Band Width In Feet	Pounds of WISDOM G L/N for Perimeter Applications Linear Distance (Feet) Around Structure							
		100	150	200	250	300	400	500	1,000
2.3	3.5	0.9	1.3	1.7	2.1	2.5	3.3	4.1	8.1
2.3	7	2.0	2.8	3.6	4.4	5.2	6.8	8.4	16.5
3.0	3.5	1.2	1.7	2.2	2.7	3.3	4.3	5.4	10.6
3.0	7	2.6	3.6	4.7	5.7	6.8	8.9	11.0	21.5
3.5	3.5	1.4	2.0	2.6	3.2	3.8	5.0	6.3	12.4
3.5	7	3.0	4.2	5.4	6.7	7.9	10.3	12.8	25.0
4.6	3.5	1.8	2.6	3.4	4.2	5	6.6	8.2	16.2
4.6	7	3.9	5.5	7.1	8.8	10.4	13.6	16.8	32.9

NOTE: The amounts of WISDOM G L/N listed in the above table are based on the total area being treated. This area is determined by multiplying the linear distance by the band width and then adding to that value the area of a circle whose radius is equal to the band width (to account for the area treated at the four corners of a rectangular structure).

FIRE ANT MOUND TREATMENT: Apply 1/2 cup of WISDOM G L/N per mound and then drench the mound with 1 to 2 gallons of water. Drench the mound with sufficient force to break its apex and allow the insecticide to flow into the ant tunnels. For best results, apply in cool weather (65 to 80° F) or in early morning or late evening hours. Treat new mounds as they appear. Do not use food utensils such as teaspoons and measuring cups for food purposes after use with insecticide.

INDUSTRIAL NON-AGRICULTURAL APPLICATIONS

(Industrial Sites, Parks, Athletic Fields and Cemeteries)

BROADCAST APPLICATIONS: For the control of actively foraging ants (including Imported Fire Ants) broadcast uniformly 2.3 to 4.6 lbs. WISDOM G L/N per 1000 sq. ft. (0.2 to 0.4 lb. a.i./A). See comments section under Lawn & Perimeter Applications for additional rate directions.

PAD MOUNTED ELECTRICAL SITES: To reduce or prevent ant mound building activity on electrical pads, uniformly distribute 1.0 to 1.5 Tablespoons (0.06 to 0.09 lb.) of WISDOM G L/N per 4 sq. ft. of mounting pad. Where existing

transformers are completely or partially filled with soil excavated by resident ants, remove any excess fill and level the remaining soil prior to application. Do not use food utensils such as tablespoons and measuring cups for food purposes after use with insecticide.

NOTE: Electrical transformers appear to be more attractive to ants during the cooler months. For best results, treat in the Fall or early Spring.

WISDOM G L/N –Spreader Settings for Broadcast Applications.

EQUIPMENT	GROUND SPEED (MPH)	SPREADER SETTING			
		100 POUNDS PER ACRE		200 POUNDS PER ACRE	
		ONCE OVER	TWICE OVER	ONCE OVER	TWICE OVER
Hand-Pushed					
LESCO Rotary	3	B + 1/4	A + 1/2	C + 1/2	B + 1/4
Scotts R-8A-1 Rotary	3	G	E	Not Rec.	G
Gandy Models (42, 36, 30, 24)	3	12	10.5	16	12
Spyker (all Models)	3	2.6	2	3.1	2.6
Equipment Drawn (PTO=540 RPM)					
Gandy Models (42, 36, 30, 24)	4.5	14	11.5	19	14
Gandy 6500 Series	4.5	15	11	20	15
Gandy 10T Series	5.0	16.5	12	24	16.5
Herd GT-77	4.0	-	-	8-H	-
Herd GT-77	8.0	8-H	-	-	8-H
Lely 2.3202.000.1	4.5	2	1	3.5	2
Lely Model L-400	4.5	Not Rec.	Not Rec.	2	Not Rec.
Vicon PS402	4.5	10	7	16	10
Vicon PS1002T	4.5	13	9	21	13

Optional or Alternate Spreader Settings

Recommended Spreader Settings for Broadcast Applications		
Spreader Make and Model	Setting To Deliver	
	2.3 lbs. Per 1,000 sq. ft.	3.5 lbs. Per 1,000 sq. ft.
<i>Spyker (all models)</i>	4.7	5
<i>Earthway Drop 7300B</i>	16	17
<i>Republic/Scotts Broadcast</i>	3	4
<i>Republic/ Scotts Drop</i>	6	7
<i>Precision Drop FH-22D</i>	9	10
<i>Precision Broadcast/Red Devil</i>	12	13
<i>Scott Speedy Green</i>	3	4.5
<i>Broadcast/Earthway 2850</i>	14	15
<i>Broadcast/Earthway 2800A</i>	14	15
<i>Broadcast/Earthway 2050 S.U.</i>	14	15

NOTE: These settings should be used as starting points when calibrating a spreader to achieve the desired labeled rate of WISDOM G L/N.

After calibration, regularly observe the amount of WISDOM G L/N that is applied to a known area and make further setting adjustments, as necessary, to maintain the appropriate application rate. Calibrate spreaders periodically to ensure that equipment wear or other factors have not altered the flow rate of WISDOM G L/N. Calibration instructions are included in the Owner's Manual that was provided by the equipment manufacturer at the time of purchase.

ORNAMENTAL USE

For soil incorporation into potting media used in containerized plantings of ornamental trees, shrubs, plants, flowers, conifers, Christmas trees, bushes and nonbearing fruit and nut trees in nurseries.

APPLICATION INSTRUCTIONS FOR POTTING MEDIA: Determine bulk density of the potting media by measuring the dry weight of a unit volume of the mix. Based on the length of control required, thoroughly mix the appropriate quantity of the WISDOM G L/N with equipment suitable to give uniform distribution in the potting media. WISDOM G L/N may be pre-mixed with an appropriate amount of sand (1:10) to ensure adequate distribution of the product of the mix.

WISDOM G L/N is approved under the USDA Plant Protection Imported Fire Ant Quarantine Certification program when used in accordance with USDA guidelines. Use the application rates given in the table below to determine the length of control required for certification.							
Pest	USDA IFA Certification Period (months)	App. Conc (AI ppm)	Potting Media Bulk Density				
			200	300	400	500	600
			App. Rate in lbs. WISDOM G L/N Per Cubic Yard*				
Imported Fire Ant	0 – 6	10	1.0	1.5	2.0	2.5	3.0
	7 – 12	12	1.2	1.8	2.4	3.0	3.6
	13 – 24	15	1.5	2.25	3.0	3.75	4.5
	Continuous	25	2.5	3.75	5.0	6.25	7.5
Comments: Incorporate appropriate amount of WISDOM G L/N in one cubic yard of potting media based on the known bulk density.							

FOR USE ON ORNAMENTAL PLANTS IN NURSERIES

For Fungus Gnat larvae & Mealybugs use 5 to 10 ppm bifenthrin. For Black Vine Weevil larvae, Root Weevil larvae, White Grubs (including Japanese Beetle, Oriental Beetle and European Chafer larvae), & Imported Fire Ants use 10 to 25 ppm bifenthrin. Use the higher rates for extended residual control.

Pest	App. Conc (AI ppm)	Potting Media Bulk Density					
		200	300	400	500	600	
		App Rate in lbs. WISDOM G L/N Per Cubic Yard*					
Fungus Gnat larvae	5	0.5	0.75	1.0	1.25	1.5	
Mealybugs	10	1.0	1.5	2.0	2.5	3.0	
Black Vine Weevil larvae	10 15 25	1.0 1.5 2.5	1.5 2.25 3.75	2.0 3.0 5.0	2.5 3.75 6.25	3.0 4.5 7.5	
Root Weevil larvae							
White Grubs							
Imported Fire Ants							
European Crane Fly larvae							
Comments: Incorporate appropriate amount of WISDOM G L/N in one cubic yard of potting media based on the known bulk density.							

*lbs, of WISDOM G L/N per cubic yard of potting media

$$= \frac{\text{bulk density of potting media} \times \text{AI ppm}}{2000}$$

(bulk density = laboratory determined dry weight of a unit volume of potting media)

SOD FARM USE Directions: Follow the lawn application use directions above when controlling listed pests on sod farms.

Dealers Must Sell in Original Packages Only.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

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 close tightly.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call Chemtrec 1-800-424-9300.

To confine spill: Cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container.

Plastic bags: Completely empty bag into application equipment. When completely empty, offer for recycling, if available or dispose of empty bag 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; and (b) 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. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.

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.

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AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200,
Newport Beach, CA 92660