



1301-211

3/10/2008

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Ms. Glenda Haage
Winfield Solutions
P.O. Box 64589
St. Paul, MN 55164-0589

MAR 10 2008

Dear Ms. Haage:

Subject: Amendment - Add supplemental labeling adding Barley, Buckwheat, Oats, Rye,
Wild Rice, Cucurbit Vegetables, Grass Forage Fodder and Hay,
and Tuberos and Corm Vegetables

Grizzly Z Insecticide

EPA Reg. No. 1381-211

Your submission dated January 18, 2008

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable provided the following revisions are made prior to release for shipment::

1. In the Restricted Use block for each of the supplemental labels, replace "Toxic to fish and aquatic organisms." with "Due to toxicity to fish and aquatic organisms."
2. In the supplemental label for use on wild rice, delete the horizontal line appearing directly beneath the two rate entries. The correct end line appears after the pest Yellowstriped Armyworm.
3. In the Remarks for each of the supplemental labels, the product name is repeatedly presented as "Grizzly Z Insecticide with Zeon Technology", but the name of the product appearing at the top of each of the supplemental labels is just "Grizzly Z Insecticide". The correct product name should appear throughout each of the supplemental labels.

A stamped copy of the label is enclosed for your records. Please submit 3 copies of revised labeling prior to release for shipment.

Sincerely,

George LaRocca.
Product Manager 13
Insecticide Branch
Registration Division (7505P)

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SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR THIS PRODUCT BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABEL

When using this product as permitted according to this supplemental labeling, read and follow all applicable directions, restrictions, and precautions on the label booklet provided with the pesticide container and on this supplemental labeling. This supplemental labeling must be in the possession of the user at the time of pesticide application.

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 the uses covered by the certified applicator's certification.

Grizzly Z Insecticide

EPA Reg. No. 1381-211

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

In case of an emergency involving this product, Call CHEMTREC toll free at 1-800-424-9300

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This label must be in the possession of the user at the time of application.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet of this product for essential product performance information.

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

MAR 10 2008

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.**

1381-211

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
CEREAL GRAINS			
Barley Buckwheat Oats Rye	Army Cutworm Cutworm species	0.015-0.025	1.92-3.2
	Armyworm Bird Cherry-Oat Aphid ¹ Cereal Leaf Beetle English Grain Aphid ¹ Fall Armyworm Flea Beetle species Grasshopper species Hessian Fly ⁴ Orange Blossom Wheat Midge Russian Wheat Aphid ¹ Stink Bug species Yellowstriped Armyworm	0.02-0.03	2.56-3.84
	Grass Sawfly	0.025-0.03	3.20-3.84
	Chinch Bug Corn Leaf Aphid ¹ Greenbug ^{1,3} Mite species ²	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water per acre.
- For chinch bug control, repeat applications at 3-5 day intervals, if needed. Grizzly Z Insecticide with Zeon Technology may only suppress heavy infestations and/or migrations.
- Greenbug is known to have many biotypes. Grizzly Z Insecticide with Zeon Technology may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.
- **Do not** apply within 30 days of harvest.
- **Do not** allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after treatment. **Do not** feed treated straw to meat or dairy animals within 30 days after the last treatment.
- **Do not** apply more than 0.06 lb. a.i. (7.68 fl. oz. or 0.48 pts. of product) per acre per season.

¹ Best control is obtained before insects begin to roll leaves. Once crop has started to boot, Grizzly Z Insecticide with Zeon

Technology may provide suppression only. Higher rates and increased coverage will be necessary.

² Suppression only.

³ See Resistance statement under **General Directions for Use.**

⁴ Make applications when adults emerge.

Manufactured for:
Winfield Solutions LLC
P.O. Box 64589
St. Paul, MN 55164-0589

prop 01-18-08

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SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR THIS PRODUCT BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABEL

When using this product as permitted according to this supplemental labeling, read and follow all applicable directions, restrictions, and precautions on the label booklet provided with the pesticide container and on this supplemental labeling. This supplemental labeling must be in the possession of the user at the time of pesticide application.

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 the uses covered by the certified applicator's certification.

Grizzly Z Insecticide

EPA Reg. No. 1381-211

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

In case of an emergency involving this product, Call CHEMTREC toll free at 1-800-424-9300

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This label must be in the possession of the user at the time of application.

See "GENERAL INFORMATION" and "MIXING" sections of the label booklet of this product for essential product performance information.

**ACCEPTED
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1381-211

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
CUCURBIT VEGETABLES			
Chayote (fruit) Chinese Waxgourd (Chinese preserving melon) Citron Melon Cucumber Gherkin Gourd (edible) <i>Lagenaria</i> species – includes: hyotan, cucuzza <i>Luffa acutangula</i> , <i>L. cylindrical</i> – includes: hechima, Chinese okra <i>Momordica</i> species – includes: balsam apple, balsam pear, bitter melon, Chinese cucumber Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>) – includes: true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, snake melon Pumpkin Squash, summer (<i>Cucurbita pepo</i> var. <i>meloepo</i>) – includes: crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini Squash, winter (<i>Cucurbita maxima</i> ; <i>C. moschata</i>) – includes: butternut squash, calabaza, hubbard squash (<i>C. mixta</i> ; <i>C. pepo</i>) – includes: acorn squash, spaghetti squash Watermelon – includes: hybrids and/or varieties of <i>Citrullus lanatus</i>	Amyworm species ¹ Blister Beetle species Cabbage Looper Corn Earworm Cricket species Cucumber Beetle species (adults) Cutworm species Flea Beetle species Grasshopper species June Beetle species Leaffooted Bug Leafhopper species Lygus Bug species ¹ Melonworm Pickleworm Plant Bug species Rindworm species complex Saltmarsh Caterpillar Squash Beetle Squash Bug species Squash Vine Borer species Stink Bug species Thrips species ^{1,2} Tobacco Budworm ¹ Webworm species	0.02-0.03	2.56-3.84
	Aphid species ¹ Leafminer species ^{1,3} Spider Mite species ³ Whitefly species ^{1,3}	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 5 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of all plant parts. When applying by air, apply in a minimum of 2 gals. total solution per acre. When applying by ground, a minimum of 10 gals. total solution per acre is recommended.
- Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.
- Insects that bore or tunnel into leaves, vines, stems or fruit must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Grizzly Z Insecticide with Zeon Technology.
- **Do not** apply more than 0.18 lb. a.i. (23 fl. oz. or 1.44 pts. of product) per acre per season. Do not apply within 1 day of harvest.

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- ¹ See Resistance statement under **General Directions for Use.**
- ² Does not include Western Flower Thrips
- ³ Suppression only.

Manufactured for:
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P.O. Box 64589
St. Paul, MN 55164-0589

prop 01-18-08

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SUPPLEMENTAL LABELING

READ THE ENTIRE LABEL FOR THIS PRODUCT BEFORE PROCEEDING WITH THE USE DIRECTIONS CONTAINED IN THIS SUPPLEMENTAL LABEL

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RESTRICTED USE PESTICIDE

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Grizzly Z Insecticide

EPA Reg. No. 1381-211

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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DIRECTIONS FOR USE

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Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
GRASS FORAGE, FODDER AND HAY			
Pastore and Rangeland Grass, Grass Grown for Hay or Silage and Grass Grown for Seed	Army Cutworm Cutworm species Essex Skipper Range Caterpillar Striped Grass Looper	0.015-0.025	1.92-3.2
	Beet Armyworm Billbug species ³ Bird Cherry-Oat Aphid ¹ Black Grass Bug Black Turfgrass Beetle (adult) Blue Stem Midge Cereal Leaf Beetle Chinch Bug Crane Fly species Cricket species English Grain Aphid ¹ Fall Armyworm Flea Beetle species Grass Mealybug Grass Sawfly (adult) Grasshopper species Green June Beetle (adult) Greenbug ^{1,2} Japanese Beetle (adult) Katydid species Leafhopper species Mite species ³ Russian Wheat Aphid ¹ Southern Armyworm Spittlebug species Stink Bug species Sugarcane Aphid Thrips species Tick species True Armyworm Webworm species Yellowstriped Armyworm	0.02-0.03	2.56-3.84

Remarks

- Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. total solution per acre. When applying by ground, a minimum of 7 gals. total solution is recommended.
- Use higher application volumes and rates when foliage is dense, pest populations are high, larvae are large and/or weather conditions are adverse. Use higher rates for longer residual.
- For chinch bug control, Grizzly Z Insecticide with Zeon Technology may only suppress heavy infestations and/or migrations. In this situation, a second application using an alternative chemistry may be needed.
- Greenbug is known to have many biotypes. Grizzly Z Insecticide with Zeon Technology may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.
- Pasture and rangeland grass may be used for grazing or cut for forage 0 days after application. **Do not** cut grass to be dried and harvested for hay until 7 days after the last application.
Grass grown for seed: Straw and mature seed (seed screenings) may be used as feed 7 days after the last application. Regrowth of grass grown for seed may be used for grazing, cut for forage or cut to be dried and harvested for hay.

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- **Do not** apply more than 0.03 lb. a.i. (3.84 fl. oz. or 0.24 pts. of product) per acre per cutting for pastures, rangeland and grasses grown for seed. A minimum re-treatment interval (RTI) of 30 days is required for pastures and rangeland receiving 0.03 lb. ai./A which have not been cut between applications.
- **Do not** apply more than 0.09 lb. a.i. (11.52 fl. oz. or 0.72 pts. of product) per acre per season.

¹ Best control is obtained before insects begin to roll leaves.

² See Resistance statement under **General Directions for Use.**

³ Suppression only.

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Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
TUBEROUS AND CORM VEGETABLES (Potato, Sweet Potato, Yams and Related)			
Arracacha Arrowroot Artichoke (Chinese and Jerusalem only) Canna (edible) Cassava (bitter and sweet) Chayote (root) Chufa Dasheen Ginger Leren Potato Sweet Potato Tanier Turmeric Yam (bean and true)	Cutworm species Leafhopper species Saltmarsh Caterpillar Sweet Potato Hornworm Woollybear Caterpillar species	0.015-0.025	1.92-3.20
	Aphid species ¹ Armyworm species ¹ Blister Beetle species Colorado Potato Beetle ¹ Corn Earworm Cricket species Cucumber Beetle species (adults) European Corn Borer Flea Beetle species (adults) Grasshopper species Looper species ¹ Lygus Bug species ¹ Plant Bug species Potato Psyllid Potato Tuberworm Stink Bug species Sweet Potato Leaf Beetle (adults) Sweet Potato Vine Borer Thrips species ^{1,2} Tortoise Beetle species Webworm species Weevil species (adults)	0.02-0.03	2.56-3.84
	Leafminer species ^{1,3} Whitefly species ^{1,3} Spider Mite species ³	0.03	3.84

Remarks

- Apply as required by scouting, usually at intervals of 7 or more days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.
- Apply with ground or air equipment using sufficient water and application methods to obtain full coverage of all plant parts. When applying by air, apply in a minimum of 2 gals. total solution per acre. When applying by ground, a minimum of 10 gals. total solution per acre is recommended.
- Use higher application volumes and/or rates when foliage is dense, pest populations are high, larvae are large, weather conditions are adverse and/or as plant size increases. Use higher rates for longer residual.
- Insects that bore or tunnel into leaves, vines, stems, tubers or corms must be controlled before penetration. Only exposed insects (larvae and/or adults) can be controlled with foliar applications of Grizzly Z Insecticide with Zeon Technology.
- **Do not** apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season. Do not apply within 7 days of harvest.

¹ See Resistance statement under **General Directions for Use.**

² Does not include Western Flower Thrips

³ Suppression only.

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SUPPLEMENTAL LABELING

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RESTRICTED USE PESTICIDE

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WARNING/AVISO

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DIRECTIONS FOR USE

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1381-211**

Crop	Target Pests	Rate	
		lb. a.i./A	fl. oz./A
CEREAL GRAINS			
Wild Rice	Bird Cherry-Oat Aphid Chinch Bug Fall Armyworm Grasshopper species Green Bug Leafhopper species Rice Stink Bug Riceworm Rice Water Weevil (Adult) Sharpshooter species True Armyworm Yellow Sugarcane Aphid Yellowstriped Armyworm	0.025-0.04	3.20-5.12
	European Corn Borer ¹ Mexican Rice Borer ¹ Rice Seed Midge ¹ Rice Stalk Borer ¹ Sugarcane Borer ¹	0.03-0.04	3.84-5.12

Remarks

- Apply as required by scouting. Timing and frequency of application should be based upon insect populations reaching locally determined economic thresholds. Determine the need for repeat applications, usually at intervals of 5-7 days, by scouting.
- Grizzly Z Insecticide with Zeon Technology can be safely used when propanil products are being used for weed control.
- Apply by air or by ground equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gals. of water (or a total carrier volume) per acre but ensure sufficient volume is used to provide adequate coverage. In addition, adding an emulsifiable crop oil (e.g., 1 pt. per acre) when lower aerial application volumes are used is recommended to help improve coverage, reduce evaporation, and improve efficacy.
- For control of rice water weevil in dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time-frame of 1-5 days after permanent flood establishment. **Do not** exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- For control of rice water weevil in water seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3-5 days after the initial treatment and, if needed, apply a second application within 7-10 days of the first application. Adults may also be treated at later stages of rice development to reduce overwintering populations.
- California: In addition to above directions for control of rice water weevil in water seeded rice, Grizzly Z Insecticide with Zeon Technology may be applied at the 1-3 leaf growth stage, with the majority at the 2 leaf growth stage. Adults are vulnerable on levees and in the water. Larvae are vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults, based upon field history and density of population. Monitor field edges and levee areas for adults. Treat in the following manner: a) spray the inside perimeter of the field, or b) spray the entire field.
- Greenbug is known to have many biotypes. Grizzly Z Insecticide with Zeon Technology may only provide suppression. If satisfactory control is not achieved with the first application of Grizzly Z Insecticide with Zeon Technology, a resistant biotype may be present. Use alternate chemistry for control.
- For control of stem borers, scout fields, when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and leaf blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch panicle for partial control. Make

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the second application at boot to heading for maximum control. All rice varieties are susceptible to stem borer damage, but Cocodrie and Priscilla are particularly susceptible.

- Mixers/loaders supporting aerial applications to wild rice at a rate of 0.04 lb. ai. per acre, and treating 1200 acres (or more) per day must wear dust-mist respirator.
- **Do not** release flood water within 7 days of an application.
- **Do not** apply more than 0.12 lb. a.i. (15.36 fl. oz. or 0.96 pts. of product) per acre per season.
- **Do not** apply more than 0.04 lb. a.i. (5.12 fl. oz. or 0.32 pt. of product) per acre within 21 to 27 days of harvest.
- **Do not** apply within 21 days of harvest.
- **Do not** use treated rice fields for the aquaculture of edible fish and crustacea.
- **Do not** apply as an ultra-low volume (ULV) spray.

¹ For control before the larvae bores into the plant stalk.

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