



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

April 27, 2022

Audrey Sehn
Regulatory Affairs Manager
Pace International, LLC
5661 Branch Road
Wapato, WA 98951

Subject: Registration Review Label Mitigation for Fludioxonil
Product Name: Shield-Brite FDL 230SC
EPA Registration Number: 64864-70
Application Date: 02/04/2019
Decision Number: 583619

Dear Audrey Sehn:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Fludioxonil Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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 the Federal Insecticide Fungicide and Rodenticide Act 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) list 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.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

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If you have any questions about this letter, please contact Darius Stanton by phone at 202-566-2332, or via email at stanton.darius@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Linda Arrington".

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

Enclosure

FLUDIOXONIL	GROUP	12	FUNGICIDE
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Shield-Brite FDL 230SC

Postharvest Fludioxonil Fungicide

Postharvest Fludioxonil Fungicide for Citrus, Kiwi, Pomegranates, Sweet Potatoes, Pome & Stone Fruit.

SHIELD-BRITE FDL 230SC is a flowable suspension concentrate.

Active Ingredient:

Fludioxonil:* 20.4%
 Other Ingredients: 79.6%
 Total: 100.0%

*CAS No. 131341-86-1

Contains 1.92 pounds of fludioxonil per gallon (230 grams/liter)

EPA Reg. No. 64864-70

EPA Est. No. 64864-WA-1

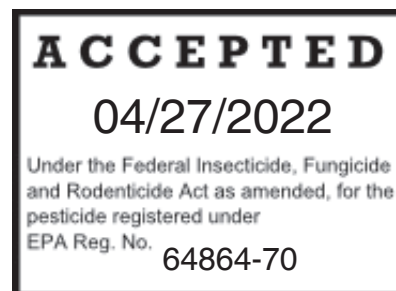
**KEEP OUT OF REACH OF CHILDREN
 CAUTION - CUIDADO**

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

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin	<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.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.	
<p>HOT LINE NUMBER Medical Emergency Phone Number 888-271-4649 (PROPHARMA) Transportation Emergency Phone Number 800-424-9300 (CHEMTREC)</p>	

NET CONTENTS: _____

Manufactured By:
 Pace International LLC
 5661 Branch Road
 Wapato, WA 98951
 800.936.6750



PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wear protective eyewear (goggles, safety glasses, or a face shield), water proof chemical resistant gloves, long-sleeved shirt, long pants and shoes plus socks. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic invertebrates. Do not contaminate water when disposing of equipment wash waters or rinsates.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Do not use with or store near oxidizing agents.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

Do not formulate this product into other end-use products.

Product Information

Failure to follow the Directions for Use and Precautions on this label may result in poor disease control.

Resistance Management Recommendations

For resistance management, SHIELD-BRITE FDL 230SC contains a Group 12 fungicide. Any fungal population may contain individuals naturally resistant to SHIELD-BRITE FDL 230SC and other Group 12 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of SHIELD-BRITE FDL 230SC or other Group 12 fungicides with different groups that control the same pathogen.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such uses are permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or IPM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact Pace International LLC at 1-800-936-6750. You can also contact your pesticide distributor or university extension specialist to report resistance.

NOTE: SHIELD-BRITE FDL 230SC may be degraded by exposure to direct sunlight. Treated fruit should not be stored in direct sunlight.

Mixing Procedures

For indoor applications, vigorously shake the product container before mixing. Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use.

Add ½ of the required amount of water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion to the spray or mixing tank. With the agitator running, open the container and add SHIELD-BRITE FDL 230SC to the tank. Continue agitation while adding the remainder of the carrier. Begin application of the solution after SHIELD-BRITE FDL 230SC has completely and uniformly dispersed into the mix carrier. Maintain agitation until the entire mixture has been used.

If tank-mixing, add the desired amount of other products recommended for tank mixture after SHIELD-BRITE FDL 230SC has completely and uniformly dispersed into the mix carrier. In general, tank mix partners should be added in this order: wettable powders, wettable granules (dry flowables), liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank mix partner to become fully dispersed before adding the next product. Continue agitation to maintain a uniform suspension until all of the spray solution has been applied. Maintain agitation until the entire mixture has been used.

THE CROP SAFETY OF ALL POTENTIAL TANK MIXES INCLUDING ADDITIVES AND OTHER PESTICIDES HAS NOT BEEN TESTED ON ALL CROPS. BEFORE APPLYING ANY TANK MIXTURE, SAFETY TO THE TARGET CROP SHOULD BE CONFIRMED.

To determine the physical compatibility of SHIELD-BRITE FDL 230SC with other products, use a jar compatibility test as follows: Using a quart jar, add the proportionate amounts of the products to 1 qt. of water or wax/oil emulsion. Add wettable powders and water dispersible granular products first, then liquid flowables, and emulsifiable concentrates last. After thoroughly mixing, let stand for at least 5 minutes. If the combination remains mixed or can be remixed readily, it is physically compatible. Once compatibility has been proven, use the same procedure for adding required ingredients to the spray tank.

If using SHIELD-BRITE FDL 230SC in a tank mixture, follow all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the labels of the products being mixed. Do not exceed the label dosage rate and the most restrictive label precautions and limitations must be followed. This product must not be mixed with any product which prohibits such mixing. Tank mixtures are permitted only in those states where the tank mix partner is registered.

CROP USE DIRECTIONS

Citrus: Calamondin (*Citrus mitis*, *Citrofortunella mitis*), Citrus citron (*Citrus medica*), Citrus hybrids (*Citrus* spp.) (includes chironja, tangelo, tangor), Grapefruit (*Citrus paradisi*), Kumquat (*Fortunella* spp.), lemon (*Citrus jambhiri*, *Citrus limon*), lime (*Citrus aurantiifolia*), Mandarin (tangerine) (*Citrus reticulata*), Orange, sour (*Citrus aurantium*), Orange, sweet (*Citrus sinensis*), Pummelo (*Citrus grandis*, *Citrus maxima*), Satsuma mandarin (*Citrus unshiu*)

Use SHIELD-BRITE FDL 230SC as a postharvest dip, drench, flood, or spray for the control of postharvest diseases caused by Green or Blue mold (*Penicillium* spp.), Diplodia stem-end rot (*Lasioidiplodia theobromae*), Phomopsis stem-end rot (*Diaporthe citri*) and Gray mold (*Botrytis cinerea*).

Application Method	Disease	Rate of product (fl. oz.)	Remarks
In-Line Dip/Drench	Green mold Blue mold Diplodia stem-end rot Gray mold	33-66 fl. oz./100 gals.	<ul style="list-style-type: none"> • Mix 33-66 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of an appropriate water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. • Dip for a minimum of 30 seconds and allow fruit to drain.
In-line Aqueous or Fruit Coating Spray application	Green mold Blue mold Diplodia stem-end rot Gray mold	33-66 fl. oz./250,000 lbs. of fruit	<ul style="list-style-type: none"> • Ensure proper coverage of the fruit. • Mix the fungicide solution in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated. • Use T-jet, CDA, or similar application system.
Do not make more than two applications to citrus fruit. For maximum decay control, treat fruit once before storage and once after storage, just prior to marketing.			

Kiwi

Use SHIELD-BRITE FDL 230SC as a postharvest dip or spray for the control of Botrytis fruit rot in kiwi.

Application Method	Disease	Rate of product (fl. oz.)	Remarks
In-Line Dip/Drench	Botrytis fruit rot	16-32 fl. oz. / 100 gals.	<ul style="list-style-type: none"> Mix 16-32 fl. oz. of SHIELD BRITEFDL-230SC in 100 gals. of water, wax/emulsion, or aqueous dilution of wax/oil emulsion. Dip for approximately 30 seconds and allow fruit to drain.
In-line Aqueous or Fruit Coating Spray application	Botrytis fruit rot	16-32 fl. oz. / 200,000 lbs. of fruit	<ul style="list-style-type: none"> Ensure proper coverage of the fruit. Mix the fungicide solution in an appropriate amount of water, wax/emulsion, or aqueous dilution of wax/oil emulsion for the crop being treated.
Do not make more than one postharvest application to kiwi.			

Pome fruit: Apple (*Malus domestica*), Crabapple (*Malus* spp.), Loquat (*Eriobotrya japonica*), Mayhaw (*Crataegus aestivalis*, *C. opaca*, and *C. rufula*), Pear (*Pyrus communis*), Pear, oriental (*Pyrus pyrifolia*), Quince (*Cydonia oblonga*)

Use SHIELD-BRITE FDL 230SC as a postharvest dip, drench, flood, or spray for the control of postharvest diseases caused by Blue mold (*Penicillium expansum*), Gray mold (*Botrytis cinerea*), Bull's-eye rot (*Neofabraea malacorticis*), Rhizopus rot (*Rhizopus stolonifer*), Bitter rot (*Colletotrichum gloeosporioides*), Sphaeropsis rot (*Sphaeropsis pyriputrescens*), Phacidiopycnis rot (*Phacidiopycnis piri*), Speck rot (*Phacidiopycnis washingtonensis*), White rot (*Botryosphaeria dothidea*), Alternaria rot (side rot) and surface mold (*Alternaria alternata*)

Application Method	Disease	Rate of product (fl oz.)	Remarks
Bin/Truck Drench or In-line Dip/Drench or Flooder	Blue mold Gray mold Bitter rot Speck rot White rot Phacidiopycnis rot Sphaeropsis rot Alternaria rot and surface mold	10-16 fl. oz. / 100 gals.	<ul style="list-style-type: none"> Ensure proper coverage of the fruit. For re-cycling in-line drench or dip treatments, the fungicide solution may be prepared in water. For in-line drench or dip applications, treat fruit for 15-30 seconds and allow fruit to drain. Fruit coatings may be applied separately after aqueous fungicide treatments.
	Rhizopus rot Bull's-eye rot	16 fl. oz. / 100 gals.	

In-line Aqueous or Fruit Coating Spray application	Blue mold Gray mold Rhizopus rot Bull's-eye rot Bitter rot Sphaeropsis rot Phacidiopycnis rot White rot Alternaria rot and surface mold	16-32 fl. oz. / 200,000 lbs. of fruit	<ul style="list-style-type: none"> • Ensure proper coverage of the fruit. • Mix the fungicide solution in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated. • Use T-jet, CDA, or similar application system.
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For maximum decay control, treat pome fruit once before storage and once after storage, just prior to marketing.

Pomegranates

Use SHIELD-BRITE FDL 230SC as a postharvest dip for the control of Botrytis fruit rot in pomegranates.

Application Method	Disease	Rate of product (fl. oz.)	Remarks
In-Line Dip/Drench	Botrytis fruit rot	32 fl. oz. / 100 gals.	<ul style="list-style-type: none"> • Mix 32 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of water, wax/emulsion, or aqueous dilution of wax/oil emulsion. • Dip for approximately 30 seconds and allow fruit to drain.

Do not make more than one postharvest application to pomegranates.

Stone Fruit: Apricot (*Prunus armeniaca*), Nectarine (*Prunus persica*), Peach (*Prunus persica*), Plum (*Prunus domestica*, *Prunus* spp.), Plum, Chickasaw (*Prunus angustifolia*), Plum, Damson (*Prunus domestica* spp. *insititia*), Plum, Japanese (*Prunus salicina*), Plumcot (*Prunus armeniaca* x *P. domestica*), Prune (fresh), (*Prunus domestica*, *Prunus* spp.), as well as other cultivars and hybrids of these.

Use SHIELD-BRITE FDL 230SC as a postharvest dip or spray for the control of post-harvest diseases caused by Brown rot (*Monilinia* spp.), Gray mold (*Botrytis cinerea*), Rhizopus rot (*Rhizopus stolonifer*), and Gilbertella rot (*Gilbertella persicaria*).

Application Method	Disease	Rate of product (fl. oz.)	Remarks
In-Line Dip/Drench	Brown rot Gray mold Rhizopus rot Gilbertella rot	16 fl. oz. / 100 gals.	<ul style="list-style-type: none"> • Mix 16 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. • Dip for approximately 30 seconds and allow fruit to drain.

In-line Aqueous or Fruit Coating Spray application	Brown rot Gray mold Rhizopus rot Gilbertella rot	16-32 fl. oz. / 200,000 lbs. of fruit	<ul style="list-style-type: none"> • Ensure proper coverage of the fruit. • Mix 16-32 fl. oz. of SHIELD-BRITEFDL 230SC in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated. • Use T-Jet, CDA, or similar application system. • For maximum efficacy, use low volume concentrate application systems for treatment of plums.
Do not make more than one postharvest application to stone fruit.			

Cherries: Cherry, sweet (*Prunus avium*), Cherry, tart (*Prunus cerasus*), as well as other cultivars and hybrids of these.

Application Method	Disease	Rate of product (fl. oz.)	Remarks
In-line Aqueous or flooder application High-Volume (dilute-spray) application	Brown rot Gray mold Rhizopus rot Gilbertella rot	16-32 fl. oz. / 50,000 lbs. of fruit	<ul style="list-style-type: none"> • Mix 16 fl. oz. of SHIELD-BRITE FDL 230SC in 50-100 gals. or 32 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion. • Use flooders, T-Jet, or similar application system.
Do not make more than one postharvest application to cherries.			

Sweet Potato

Use SHIELDBRITE FDL 230SC as a postharvest dip and low volume application for the control of postharvest rots caused by *Rhizopus stolonifer*.

Application Method	Disease	Rate of product (fl. oz.)	Remarks
In-Line Dip/Drench	Rhizopus rot	16-32 fl. oz. / 100 gals.	<ul style="list-style-type: none"> Mix 16-32 fl. oz. of SHIELD-BRITEFDL 230 in 100 gals. of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion. Dip for approximately 30 seconds and allow fruit to drain.
In-line Aqueous or Fruit Coating Spray application	Rhizopus rot	16 fl. oz. / 200,000 lbs. of sweet potatoes	<ul style="list-style-type: none"> Ensure proper coverage of the tubers. Mix 16 fl. oz. of SHIELD-BRITE FDL 230 in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated. Use T-Jet, CDA, or similar application system.

Do not make more than one postharvest application to sweet potatoes.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not use or store near heat or open flames. In case of spill or leak, absorb liquid with sawdust or other absorbant material and incinerate or dispose of it in approved disposal area. **PESTICIDE DISPOSAL:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. **CONTAINER HANDLING:**

[for packages ≤ 5 gallons]

Non-refillable 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available 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.

[for packages > 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the

rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available 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.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

NOTICE TO BUYER

IMPORTANT: Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container immediately for a complete refund.

LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY

Upon purchase of this product, purchaser and user agree to the following terms:

Warranty: Pace International, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects. To the extent consistent with applicable law, except as expressly stated in the foregoing sentence, the Company makes no further warranties and expressly disclaims any implied warranties of merchantability or fitness for a particular purpose and any representation or warranty.

Terms of Sale: The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

Limitations of Liability: To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury, or other claim. To the extent consistent with the applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental, or consequential damages of any kind, including loss of profits or income.

To the extent consistent with applicable law, the Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale, and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.

MADE IN USA