

64864-70

11/06/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF  
CHEMICAL SAFETY AND  
POLLUTION PREVENTION

Andrew Kieniksman  
Pace International, LLC  
5661 Branch Road  
Wapato, WA 98951

NOV 06 2012

Subject: Application for Pesticide Notification (PRN 98-10)  
Submission date: 10/3/12  
Product Name: Shield-Brite FDL 230SC  
EPA Reg. No.: 64864-70  
EPA Decision Number: 470682

Dear Mr. Kieniskman:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10.

The Agency acknowledges the change of the primary brand name to "Shield-Brite FDL 230SC."

The label submitted with the application has been stamped "Notification" and will be placed in our records. If you have questions concerning this letter, please contact Erin Malone at 703-347-0253 or by email at malone.erin@epa.gov.

Sincerely,

William Cutchin  
Acting Product Manager 20  
Fungicide Branch  
Registration Division (7505P)



United States  
**Environmental Protection Agency**  
 Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 64864-70	2. EPA Product Manager C. Giles-Parker	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Shield-Brite FDL-230SC	PM# 20	
5. Name and Address of Applicant (Include ZIP Code)  Pace International, LLC 5661 Branch Road, Wapato, WA 98951  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION - To change the official name of record by removing the second hyphen, thereby making the official name "Shield-Brite FDL 230SC".

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "Yes" Unit Packaging wgt. No. per container		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Package wgt.	No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1, 2.5, 5, 10, 25, 50 gl, etc.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Andrew Kieniksman	Title Regulatory Supervisor	Telephone No. (Include Area Code) 206-331-4713
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Supervisor	
4. Typed Name Andrew Kieniksman	5. Date Oct 3, 2012	



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**SHIELD-BRITE FDL 230SC**

- Post Harvest Fludioxonil Fungicide
- Post Harvest Fludioxonil Fungicide for Citrus, Kiwi, Pomegranates, Sweet Potatoes, Pome & Stone Fruit.

**NOTIFICATION**

**NOV 06 2012**

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"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 – 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center at 1-800-858-7378, 7:30 AM to 3:30 PM Pacific time (PT), Monday through Friday. During other times, call the poison control center at 1-800-222-1222.</p>	

**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. 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.

#### Fungicide Resistance Management

##### Group 12 Fungicide

SHIELD-BRITE FDL 230SC contains fludioxonil, a fungicide in the phenylpyrrole class of chemistry with a unique mode of action, which leads to increased glycerol synthesis. Fungal isolates with acquired resistance to Group 12 may eventually dominate the fungal population if Group 12 fungicides are used repeatedly in the same packing house or in successive years as the primary method of control for targeted pathogens. This may result in partial or total loss of control of those pathogens by fludioxonil or other Group 12 fungicides. Because resistance development cannot be predicted, use of post-harvest resistance management strategies should be practiced. These may include rotating and/or tank mixing with products having different modes of action. Sanitation and other cultural practices to minimize disease are also recommended to aid in control as well as to assist in preventing/delaying resistance development.

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

#### Mixing Procedures

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.





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**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 post-harvest 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 malacortidis*), 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"> <li>• Ensure proper coverage of the fruit.</li> <li>• For re-cycling in-line drench or dip treatments, the fungicide solution may be prepared in water.</li> <li>• For in-line drench or dip applications, treat fruit for 15-30 seconds and allow fruit to drain.</li> <li>• Fruit coatings may be applied separately after aqueous fungicide treatments.</li> </ul>
	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"> <li>• Ensure proper coverage of the fruit.</li> <li>• Mix the fungicide solution in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated.</li> <li>• Use T-jet, CDA, or similar application system.</li> </ul>

**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 post-harvest 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"> <li>• Mix 32 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of water, wax/emulsion, or aqueous dilution of wax/oil emulsion.</li> <li>• Dip for approximately 30 seconds and allow fruit to drain.</li> </ul>

**Do not make more than one post-harvest application to pomegranates.**



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**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 post-harvest 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"> <li>Mix 16 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion.</li> <li>Dip for approximately 30 seconds and allow fruit to drain.</li> </ul>
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"> <li>Ensure proper coverage of the fruit.</li> <li>Mix 16-32 fl. oz. of SHIELD-BRITE FDL 230SC in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated.</li> <li>Use T-Jet, CDA, or similar application system.</li> <li>For maximum efficacy, use low volume concentrate application systems for treatment of plums.</li> </ul>

**Do not make more than one post-harvest 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 (fl. oz.)	Remarks
In-line Aqueous or flooders 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"> <li>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.</li> <li>Use flooders, T-Jet, or similar application system.</li> </ul>

**Do not make more than one post-harvest application to cherries.**

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**Sweet Potato**

Use SHIELD-BRITE FDL 230SC as a post-harvest 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"> <li>Mix 16-32 fl. oz. of SHIELD-BRITE FDL 230SC in 100 gals. of water, wax/oil emulsion, or aqueous dilution of wax/oil emulsion.</li> <li>Dip for approximately 30 seconds and allow fruit to drain.</li> </ul>
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"> <li>Ensure proper coverage of the tubers.</li> <li>Mix 16 fl. oz. of SHIELD-BRITE FDL 230SC in an appropriate water, wax/oil emulsion, or aqueous dilution of a wax/oil emulsion for the crop being treated.</li> <li>Use T-Jet, CDA, or similar application system.</li> </ul>
<b>Do not make more than one post-harvest application to sweet potatoes.</b>			

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Do not store near heat or open flame. Store only in original container. Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, mop and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

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

**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

