

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Shield-Brite<sup>®</sup> FDL 230SC **EPA Reg #** 64864-70  
**Product Code:** 10437  
**Product Use:** Post Harvest Fludioxonil Fungicide for Pome & Stone Fruit  
**Supplier:** Pace International, LLC  
**Address:** 5661 Branch Road, Wapato, WA 98951  
**Phone Number:** 800-936-6750 (Monday-Friday, 7:00 a.m. – 4:00 p.m.)  
**Medical Emergency Phone Number:** 888-271-4649 (PROSAR)  
**Transportation Emergency Phone Number:** 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

**Classification:**  
 Skin irritation, Category 3  
 Eye irritation, Category 2B  
 Specific Target Organ Toxicity, repeated exposure, Category 2  
 Acute Aquatic toxicity, Category 3

**Hazard Symbols:**



**Hazard Statements:**  
 WARNING  
 H316 Causes mild skin irritation.  
 H320 Causes eye irritation.  
 H373 May cause damage to organs (kidney, liver) through prolonged or repeated exposure.  
 H402 Harmful to aquatic life.

**Precautionary Statements:**

**Prevention Statements:**  
 P264 Wash hands thoroughly after handling.  
 P260 Do not breathe mist, vapour, or spray.  
 P273 Avoid release to the environment.

**Response Statements:**

P332/313 If skin irritation occurs: Get medical advice/attention.  
 P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337/313 If eye irritation persists: Get medical advice/attention.  
 P314 Get medical advice / attention if you feel unwell.

**Disposal Statements:**

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Fludioxonil	131341-86-1	< 25 %
Proprietary food grade ingredients		balance

### 4. FIRST AID MEASURES

**General** Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

**Advice:** Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment.

**If on Skin:** Take off contaminated clothing. Wash skin with plenty of soap and water. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical advice/attention.

**If Swallowed:** Call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**If Inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.



## 5. FIRE FIGHTING MEASURES

<b>Extinguishing Media:</b>	Not flammable. Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire exposed containers cool.
<b>Special Exposure Hazards:</b>	None known.
<b>Special Protective Equipment / Procedures for Firefighters:</b>	Wear self-contained breathing equipment.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions:</b>	Wear protective clothing, chemical resistant gloves, and safety glasses..
<b>Environmental Precautions:</b>	In case of spill isolate area and deny entry to unnecessary personnel. Do not allow product to enter sewers, lakes, streams or other bodies of water.
<b>Containment / Clean-Up Methods:</b>	Stop spill at the source. Construct temporary dikes of dirt, sand, or other appropriate material to prevent spreading of the material. Absorb with an inert material such as sand or vermiculite and place in an appropriate container for disposal.

## 7. HANDLING & STORAGE

<b>Handling:</b>	Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all times. Smoking, eating, and drinking are prohibited in the work area. For personal protection wear protective clothing, chemical resistant gloves, and safety glasses.
<b>Storage:</b>	Store in a cool, dry area at room temperature, and away from direct sunlight. Keep container tightly closed when not in use. Keep out of reach of children and livestock.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	Fludioxonil CAS# 131341-86-1 Exposure guidelines not established.
<b>Engineering Controls:</b>	Local exhaust ventilation maybe necessary to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source. Provide mechanical ventilation for confined spaces.
<b>Personal Protective Equipment :</b>	<b>Clothing:</b> Wear protective clothing and chemical resistant gloves when handling. <b>Eye Protection:</b> Wear safety glasses. Eye fountain and washing facilities should be present at work area. <b>Respiratory Protection:</b> Not normally required. A NIOSH-approved respirator with organic vapor filter may be used in misty environments without proper ventilation.



## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance:</b>	Off-white, viscous Liquid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Odor:</b>	Faint	<b>Vapor pressure:</b>	Not available
<b>Odor threshold:</b>	Not available	<b>Vapor density: (air =1)</b>	Not available
<b>pH:</b>	6.0 – 8.0	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.128
<b>Melting/Freezing point:</b>	Not available	<b>Solubility:</b>	Miscible with water
<b>Boiling point:</b>	212°F (100°C)	<b>Partition coefficient (n-octanol-water):</b>	Not available
<b>Flash point:</b>	Not flammable	<b>Auto-ignition temperature:</b>	Not available
<b>Evaporation rate:</b>	Not available	<b>Decomposition temperature:</b>	Not available
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	Not available



## 10. STABILITY & REACTIVITY

<b>Reactivity hazards:</b>	None known
<b>Chemical stability:</b>	Stable at ambient conditions
<b>Conditions to avoid:</b>	None known
<b>Incompatible materials:</b>	No specific data.
<b>Hazardous decomposition products:</b>	Not expected to be produced.

## 11. TOXICOLOGICAL INFORMATION

<b>Acute toxicity:</b>	<b>Acute Oral:</b>	LD <sub>50</sub> (estimate): > 5000 mg/kg	Based on Ingredients
	<b>Acute Dermal:</b>	LD <sub>50</sub> (estimate): > 5000 mg/kg	Based on Ingredients
	<b>Inhalation:</b>	LC <sub>50</sub> (estimate): > 20 mg/L	Based on Ingredients
<b>Skin corrosion/irritation:</b>	Causes mild skin irritation		
<b>Eye damage/irritation:</b>	Causes eye irritation		
<b>Respiratory/Skin sensitization:</b>	No evidence of sensitization.		
<b>Germ cell mutagenicity:</b>	Not available		
<b>Carcinogenicity:</b>	No carcinogenic effects are expected due to product being comprised of FDA-approved food-grade ingredients.		
<b>Reproductive toxicity:</b>	Occasional workplace exposure is not expected to present a hazard.		
<b>Target organ effects:</b>	No known target organ effects.		
<b>Aspiration hazard:</b>	Material does not present an aspiration hazard.		
<b>Potential health effects:</b>	May cause redness and reversible irritation to eyes. Prolonged or repeated contact may cause skin irritation.		

## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b>	LC <sub>50</sub> (96-hr) fish: > 45 mg/L (estimate)	Based on Ingredients
	Fludioxonil	
	Invertebrate (water flea), LC <sub>50</sub> /EC <sub>50</sub>	0.9 ppm
	Rainbow trout, LC <sub>50</sub> /EC <sub>50</sub>	0.47 ppm
	Green algae, LC <sub>50</sub> /EC <sub>50</sub>	0.087 ppm
	Bobwhite quail, oral LD <sub>50</sub>	>2000 mg/kg
<b>Persistence/ degradability:</b>	Not available	
<b>Bioaccumulative potential:</b>	Not available	
<b>Mobility in soil:</b>	Not available	
<b>Other adverse effects:</b>	Harmful to aquatic life.	

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal methods:</b>	Recover or recycle if possible. Do not discharge into sewers, lakes, streams, or other bodies of water. Disposal should be made in accordance with applicable regional, national and local laws and regulations. Consult appropriate regulatory officials for information on disposal, keeping in mind that local regulations may be more stringent than regional or national requirements.
--------------------------	---



#### 14. TRANSPORT INFORMATION

	<u>DOT</u>	<u>IMDG</u>	<u>IATA</u>
<b>UN number:</b>	Not applicable	Not applicable	Not applicable
<b>Proper shipping name:</b>	Not regulated	Not regulated	Not regulated
<b>Hazard class(es):</b>	Not applicable	Not applicable	Not applicable
<b>Packing group:</b>	Not applicable	Not applicable	Not applicable
<b>Marine Pollutant:</b>	UN3082, Environmentally Hazardous Substance, Liquid, N.O.S. (Fludioxonil), 9, PG III, MARINE POLLUTANT		
<b>Special precautions:</b>	None		

#### 15. REGULATORY INFORMATION

<b>CA Prop. 65</b>	This product may contain trace amounts of ethylene oxide (CAS # 75-21-8) and propylene oxide (CAS # 75-56-9), chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
<b>FIFRA:</b>	Shield-Brite FDL 230SC is registered as a pesticide with the U.S. EPA under registration number 64864-70.
<b>SARA 313:</b>	Contains no chemicals subject to SARA Title III Section 313 in quantities sufficient to trigger reporting requirements.
<b>TSCA:</b>	All components of this product are included or exempt from inclusion in EPA's Toxic Substances Control Act (TSCA) Chemical Substance Inventory.
<b>WHMIS:</b>	This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

#### 16. OTHER INFORMATION

**HMIS Ratings:** Health – 1 Flammability – 0 Reactivity – 0

**NFPA Ratings:**



The information provided in this Safety Data Sheet (SDS) is provided in good faith and believed to be accurate at the time of preparation of the SDS. However, to the extent consistent with applicable law, Pace International, LLC and its subsidiaries or affiliates extend no warranties, make no representations, and assume no responsibility as to the accuracy, suitability, or completeness of such information. Additionally, to the extent consistent with applicable law, neither Pace International, LLC nor any of its subsidiaries or affiliates represents or guarantees that this information or product may be used without infringing the intellectual property rights of others. Except to the extent a particular use and particular information are expressly stated on the product label, it is the users' own responsibility to determine the suitability of this information for their own particular use of this product. If necessary, contact Pace International, LLC) to confirm that you have the most current product label and SDS.

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABEL (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). The product label provides information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products is regulated by the EPA under the authority of FIFRA through the product label. All necessary hazard classification and appropriate precautionary use, storage, and disposal information is set forth on that label or labeling accompanying the pesticide or to which reference is made on the label. It is a violation of federal law to use an EPA-registered pesticide product in any manner inconsistent with its labeling.

**SDS preparation date:** May 26, 2015 **Replaces MSDS dated:** December 6, 2012  
**Changes since last revision:** New format to SDS

