

## SAFETY DATA SHEET

### 1. PRODUCT & COMPANY IDENTIFICATION

**Product Name:** PacRite<sup>®</sup> FDL 230SC **EPA Reg #** 42750-251-64864  
**Product Code:** 10551  
**Product Use:** Post Harvest Fludioxonil Fungicide  
**Product Restrictions:** Not for aquatic use.  
**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 (PROPHARMA/PROSAR)  
**Transportation Emergency Phone Number:** 800-424-9300 (CHEMTREC)

### 2. HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (2012 OSHA Hazard Communication Standard)  
 This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification:**

Acute Toxicity – Inhalation, Category 4  
 Acute Toxicity – Dermal, Category 4  
 Eye irritation, Category 2B  
 Acute Aquatic Toxicity – Long Term, Category 4

**Hazard Symbols:**



**Hazard Statements:**

WARNING  
 H332 Harmful if inhaled.  
 H312 Harmful in contact (absorbed) with skin.  
 H320 Causes eye irritation.  
 H413 Harmful to aquatic life with long lasting effects.

**Other Hazards:**

**Hazard(s) not otherwise classified (HNOC):**

**Precautionary Statements:**

**Prevention Statements:**

P261 Avoid breathing mist, vapor, or spray.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves and clothing.  
 P264 Wash hands thoroughly after handling.  
 P273 Avoid release to the environment.

**Response Statements:**

P304/340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 P312 Call a POISON CENTER/doctor If you feel unwell.  
 P302/352 IF ON SKIN: Wash with plenty of soap and water.  
 P312 Call a POISON CENTER/doctor If you feel unwell.  
 P321 Specific treatments see First Aid Measures, Section 4  
 P362/364 Take off contaminated clothing and wash it before reuse.  
 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.

**Disposal Statements:**

P501 Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.  
 None known.

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>Concentration (w/w %)</u>
Fludioxonil	131341-86-1	20.4 %
Other ingredients*	Balance	79.6%

\*Other Ingredients not identified are trade secrets and non-hazardous.

### 4. FIRST AID MEASURES

**General Advice:** Have the product container, label or Safety Data Sheet with you when calling a poison control center or physician, or going for treatment. You may also contact PROPHARMA (PROSAR) 1-888-271-4649 for emergency medical treatment information.

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



<b>If in Eyes:</b>	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. If eye irritation persists: Get medical advice/attention.
<b>If Swallowed:</b>	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.
<b>If Inhaled:</b>	Move person to fresh air. Call a POISON CENTER/doctor if you feel unwell. If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
<b>Most important Symptoms / effects, acute and Delayed:</b>	Treat patient symptomatically.
<b>Indication of any immediate medical attention and special treatment needed:</b>	Treat patient symptomatically.

## 5. FIRE FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Not flammable. Use any means suitable for extinguishing surrounding fire. Foam, dry chemical, carbon dioxide, or water spray. Water spray may be used to keep fire exposed containers cool.
<b>Unsuitable Extinguishing Media:</b>	None known.
<b>Special Hazards Arising from the Chemical:</b>	In a fire, formation of oxides of carbon and nitrogen can be expected, releasing irritating and toxic gases.
<b>Special protective equipment and precautions for firefighters:</b>	Firefighters should wear full protective clothing including self-contained breathing apparatus. Move containers from fire area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Fire-fighting equipment/instructions:</b>	This product is toxic to aquatic life. Do not allow product to enter sewers, lakes, streams or other bodies of water. Move containers from fire area if you can do so without risk.
<b>Specific methods:</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>Hazardous combustion products:</b>	May include and are not limited to: Oxides of carbon and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency procedures:</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist, vapor, or spray. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, (see section 8 of the SDS).
<b>Environmental Precautions: Containment / Clean-Up Methods:</b>	Do not allow product to enter sewers, lakes, streams or other bodies of water. Stop leak if you can do so without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Never return spills to original containers for re-use. Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS.



## 7. HANDLING & STORAGE

<b>Precautions for Safe Handling:</b>	Avoid contact with skin and eyes. Use good industrial hygiene practices in handling this material. DO NOT get in eyes, on skin or clothing. Use only with adequate ventilation. Do not breathe mist, vapor, or spray. Keep container tightly closed. Wear appropriate personal protective equipment (see Section 8 of the SDS). Wash thoroughly after handling. Eating, drinking and smoking in work areas is prohibited. Remove contaminated clothing and protective equipment before entering eating areas.
<b>Conditions for Safe Storage, including any Incompatibilities:</b>	Do not store near heat or open flame. Store in original containers only. Keep container closed when not in use. Keep container upright to prevent leakage and release into environment. 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. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Occupational Exposure Limits:</b>	Fludioxonil CAS# 131341-86-1 Exposure guidelines not established.
<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<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>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Wear safety glasses. Eye fountain and washing facilities should be present at work area.
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves, such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride (PVC), or Viton.
<b>Other</b>	Protective clothing as in long sleeved shirt, long pants, socks and shoes.
<b>Respiratory protection</b>	Not normally required. A NIOSH-approved respirator may be used in environments without proper ventilation.
<b>Thermal hazards</b>	Not applicable.
<b>General hygiene considerations</b>	Use good industrial hygiene practices in handling this material. When using do not eat, drink, or smoke. Wash thoroughly after handling.

## 9. PHYSICAL & CHEMICAL PROPERTIES

<b>Physical state:</b>	Liquid	<b>Upper/Lower flammability limits:</b>	Not available
<b>Appearance / Color:</b>	Off-white, viscous Opaque	<b>Vapor pressure::</b>	3.9 x 10 <sup>-4</sup> mPa(25°C) (Fludioxonil)
<b>Odor:</b>	Sweet, latex paint-like odor	<b>Vapor density: (air =1)</b>	Not applicable
<b>Odor threshold:</b>	Not available	<b>Specific Gravity: (H<sub>2</sub>O = 1)</b>	1.05-1.08 g/ml (8.75 – 9.10 lb/gl)*
<b>pH:</b>	6.2 – 7.2	<b>Solubility:</b>	Emulsifies
<b>Melting/Freezing point:</b>	Not applicable	<b>Partition coefficient (n-octanol-water):</b>	Log Pow 4.12 (25°C) (Fludioxonil)
<b>Pour Point:</b>	No data	<b>Auto-ignition temperature:</b>	No data
<b>Initial boiling point and boiling range:</b>	Not available	<b>Decomposition temperature:</b>	No data
<b>Flash point:</b>	Not flammable	<b>Viscosity:</b>	917.5 cSt (20°C); 567.1 cST (40°C)



**Evaporation rate:** Not available      **Explosive properties:** Not available  
**Flammability (solid, gas):** Not applicable      **Oxidizing properties:** Not available  
 \*Listed density is an approximate value and does not necessarily represent that of a specific batch.

## 10. STABILITY & REACTIVITY

**Reactivity hazards:** None known  
**Possibility of Hazardous Reactions:** None known  
**Chemical stability:** Stable, may decompose if heated.  
**Conditions to avoid:** Avoid temperatures above (115°F, 46°C)  
**Incompatible materials:** Acidic and oxidizing materials.  
**Hazardous decomposition products:** Unknown

## 11. TOXICOLOGICAL INFORMATION

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

### Information on likely routes of exposure

**Ingestion** May cause stomach distress, nausea or vomiting.  
**Inhalation** May cause respiratory tract irritation.  
**Skin contact:** Harmful if absorbed through skin. Slight skin irritant.  
**Eye contact:** Slight eye irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** None known

### Information on toxicological effects

#### Acute toxicity

Components	Species	Test Results
Fludioxonil (CAS 131341-86-1)		
Acute toxicity values from a similar but not identical formulation.		
<b>Acute</b>		
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
<i>Dermal</i>		
LD50	Rat	> 5000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.09 mg/L

**Skin corrosion/irritation:** Slight irritant

**Serious eye damage/eye Irritation:** Causes slight irritation.

**Respiratory sensitization:** Not a respiratory sensitizer.

**Skin sensitization:** Not a skin sensitizer.

**Germ cell mutagenicity:** Non-hazardous by WHMIS/OSHA criteria.

**Carcinogenicity:** Non-hazardous by WHMIS/OSHA criteria.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects. Non-hazardous by WHMIS/OSHA criteria.

**Teratogenicity:** Delayed development at maternally toxic doses.

**Specific target organ toxicity - single exposure:** Not classified.

**Specific target organ toxicity - repeated exposure:** Not classified.

**Aspiration hazard:** Material does not present an aspiration hazard.

**Chronic effects:** Unknown.



## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	See below		
<b>Ecotoxicological data</b>			
<b>Components</b>		<b>Species</b>	<b>Test Results</b>
Fludioxonil (CAS 131341-86-1)			
<b>Aquatic</b>			
Fish	LC50	Rainbow Trout	0.47 ppm, 96 hours
		Bluegill	unknown
<b>Avian</b>			
Birds (oral)	LD50	Bobwhite Quail	>2000 mg/Kg
	LD50	Mallard Duck	unknown
<b>Bee</b>			
	LD50	Unknown	
<b>Persistence/ degradability:</b>	Moderately persistent with a half-life of 120 – 240 days depending on soil pH and weather conditions.		
<b>Bioaccumulative potential</b>			
<b>Mobility in soil:</b>	Low mobility in soil.		
<b>Mobility in general:</b>	Not available.		
<b>Other adverse effects:</b>	This product is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.		

## 13. DISPOSAL CONSIDERATIONS

<b>Disposal instructions:</b>	Do not contaminate water, food or feed by storage or 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.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>Disposal methods:</b>	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 1/4 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.

## 14. TRANSPORT INFORMATION

	<u><b>DOT</b></u>
<b>UN number:</b>	UN3082
<b>Proper shipping name:</b>	Environmentally Hazardous Substance, Liquid, N.O.S. (Fludioxonil)
<b>Hazard class(es):</b>	9
<b>Packing group:</b>	III



**Marine Pollutant:** Yes  
**Special precautions:** None

**15. REGULATORY INFORMATION**

**US FEDERAL REGULATIONS** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Exempt from TSCA it is solely for FIFRA regulated use.

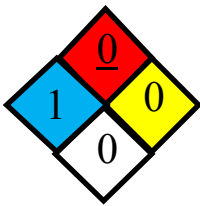
**CERCLA Hazardous Substance List (40 CFR 302.4)**

<b>SARA 311/312 Hazardous chemical</b>	Not regulated.
<b>SARA 313 (TRI reporting)</b>	Immediate and Acute Health
<b>US. California Proposition 65</b>	None known
	Not listed.

**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:** March 16, 2018                      **Replaces SDS dated:** ----  
**Changes since last revision:** New SDS

