

5661 Branch Road Wapato, WA 98951 800.936.6750 www.paceint.com

Shield-Brite FDL 230SC

POSTHARVEST

SAFETY DATA SHEET

oduct Name: oduct Code: oduct Use: oduct Restriction: nufacturer/Impor nufacturer:	Shield-Brite FDL 230SC 10437 Post-Harvest Fludioxonil Fungici s: For Agriculture Use Only ter/Supplier/Distributor information Pace International, LLC	
oduct Use: oduct Restriction: nufacturer/Impor	Post-Harvest Fludioxonil Fungici s: For Agriculture Use Only ter/Supplier/Distributor information	
oduct Restriction	s: For Agriculture Use Only ter/Supplier/Distributor information	
nufacturer/Impor	ter/Supplier/Distributor information	
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nufacturer:	Pace International, LLC	
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dress:	5661 Branch Road, Wapato, WA	A 98951
one Number:	800-936-6750 (Monday-Friday, 7	7:00 a.m. – 4:00 p.m.)
dical Emergency	Phone Number: 888-271-4649 (PRC	OPHARMA/PROSAR)
ansportation Eme	rgency Phone Number: 800-424-93	00 (CHEMTREC)
pplier:	See above	
	dical Emergency Insportation Eme pplier:	dical Emergency Phone Number: 888-271-4649 (PRO Insportation Emergency Phone Number: 800-424-93

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

Classification:	Precautionary Statements:
Physical Hazard, Not classified.	Prevention Statements:
Health Hazard, Not classified.	Observe good industrial hygiene practices.
Environmental Hazard, Not classified.	Response Statements:
Hazard Symbols:	Wash thoroughly after handling this product.
None.	Storage Statements:
Signal Word:	Do not handle, store or open near an open flame, sources of heat or
None.	sources of ignition. Store in a cool, dry area at room temperature,
	and away from direct sunlight. Keep only in original container. Keep
Hazard Statements:	container tightly closed and upright when not in use. Do not store
This mixture does not meet the criteria for	near food or feed. In case of spill on floor or paved surfaces, mop
classification.	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. Keep out of reach of children and livestock
	Disposal Statements:
	Dispose of contents/container should be made in accordance with applicable regional, national and local laws and regulations.
Hazard(s) not otherwise classified (HNOC):	None known.
Other Hazards:	None.
Supplemental information:	This is a registered EPA product. The product labeling is in
Supplemental mormation.	compliance with EPA regulations and guidelines.
	EPA Reg. # 64864-70

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture			
Chemical name		<u>CAS #</u>	<u>%</u>
Fludioxonil		131341-86-1	10 – 30*
Glycerol		56-81-5	10 – 30*
All concentrations	are in percent by weight unless ingred	lient is a gas. Gas concentration	ns are in percent by volume.
Composition	*US GHS: The exact percentage (cor	ncentration) of composition has	been withheld as a trade
comments:	secret in accordance with paragraph	(i) of §1910.1200	





4. FIRST AID MEASURES General Advice: Have the product container or label with you when calling a poison control center, doctor, or going for treatment. For emergency information concerning this product, call the National Pesticides Information Center [NPIC] at 1-800-858-7378 Monday through Friday, 7:30 am to 3:30 pm Pacific Time. During other times, call the poison control center at 1-800-222-1222. IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin Skin contact: immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. IF IN EYES: Hold eye open and rinse cautiously with water for 15 – 20 Eye contact: minutes. Remove contact lenses, if present, after the first 5 minutes if easy to do, then continue rinsing eye. Call a poison control center or doctor for treatment advice. Inhalation: If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention. Ingestion: Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention. Most important Direct contact with eyes may cause temporary irritation. Symptoms / effects, acute and delayed Indication of any immediate Provide general supportive measures and treat symptomatically. medical attention and special treatment needed: **General Information:** If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. FIRE FIGHTING MEASURES

•••		
	Suitable Extinguishing Media:	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
	Unsuitable Extinguishing Media:	Do not use water jet as an extinguisher, as this will spread the fire.
	Special Hazards Arising from the	During fire, gases hazardous to health may be formed.
	Chemical:	
	Special protective equipment and	Firefighters must wear full protective clothing including self-contained
	precautions for firefighters:	breathing apparatus.
	Firefighting	Move containers from fire area if you can do so without risk.
	equipment/instructions:	
	Specific methods:	Use standard firefighting procedures and consider the hazards of other involved materials.
	General fire hazards:	No unusual fire or explosion hazards noted.
	Hazardous combustion products:	May include and are not limited to: Oxides of carbon oxides of sulfur and oxides of nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency procedures:	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate
Methods and Materials for Containment and Clean-Up:	protective clothing. For personal protection, (see section 8 of the SDS). Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental Precautions:	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.





7. HANDLING & STORAGE

Precautions for Safe Handling:

Conditions for Safe Storage, including any Incompatibilities: Use good industrial hygiene practices in handling this material. Do not get in eyes, on skin or on clothing. Wear appropriate personal protective equipment (see Section 8). Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Store in a cool, dry area at room temperature, and away from direct sunlight. Keep only in original container. Keep container tightly closed and upright 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. Keep out of reach of children and livestock.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Occupational Exposure Limits: US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components Value Form Туре PEL Glycerol(CAS# 56-81-5) **Respirable Fraction** 70 mg/m3 20 ppm Total Dust **US. ACGIH Threshold Limit Values** Components Type Value Form Fludioxonil (CAS# 131341-86-1) 1 mg/m3 Inhalable fraction. TWA Biological Limit Values: No biological exposure limits noted for the ingredients. Appropriate engineering Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process controls: enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Individual protection measures, such as personal protective equipment Eye/face protection: Wear safety glasses with side shields (or goggles). Eye wash station and washing facilities should be available. Skin protection Wear nitrile, neoprene, vinyl (PVC), or rubber gloves. Hand protection: Wear protective clothing (long sleeved shirt, pants, and shoes). Other: Where exposure guideline levels may be exceeded, use an approved NIOSH Respiratory respirator. Respirator should be selected by and used under the direction of a protection: trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) Thermal hazards: Not applicable. Handle in accordance with good industrial hygiene and safety practice. Wash General hygiene considerations: thoroughly after handling. Do not eat, drink or smoke when using this product. Routinely wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical state:	Liquid	Upper/Lower flammability or exposure limits:	Not available
Appearance / Color:	Off-white, viscous	Vapor pressure:	Not available
Odor:	Faint	Vapor density: (air =1)	Not available
Odor threshold:	Not available	Specific Gravity: (H ₂ O = 1)	1.128 g/ml @ 20°C
pH:	6.58	Solubility:	Miscible in water
Melting/Freezing point:	Not available	Partition coefficient (n-octanol-water):	Not available
Initial boiling point and boiling range:	Not available	Auto-ignition temperature:	Not available
Flash point:	>212°F (100°C)	Decomposition temperature:	Not available
Evaporation rate:	Not available	Viscosity:	63.1cST @ 40°C
Flammability (solid, gas):	Not applicable	Explosive Properties:	Not explosive
		Oxidizing Properties:	Not oxidizing

10. STABILITY & REACTIVITY

Reactivity hazards: Possibility of Hazardous Reactions: Chemical stability: This product may react with strong oxidizing agents. No dangerous reaction known under conditions of normal use.

Material is stable under normal conditions.



Shield-Brite FDL 230SC

Conditions to avoid:	Keep away from heat / hot surfaces / sparks / open flames / and other ignition sources. This product may react with oxidizing agents. Do not mix with other chemicals.
Incompatible materials: Hazardous decomposition products:	Strong oxidizing agents. May include and are not limited to: Oxides of carbon, oxides of sulfur and oxides of nitrogen.

11. TOXICOLOGICAL INFORMATION

1. IOXICOLOGICAL IN	FORMATION	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion	
Information on likely routes of exp		
Ingestion	May cause stomach distress, nausea c	or vomiting.
Inhalation	No adverse effects due to inhalation ar	
Skin contact	Slightly irritating to the skin based on te	est data.
Eye contact	Non-irritating based on test data.	
Symptoms related to the	Skin irritation.	
physical, chemical and		
toxicological characteristics		
Information on toxicological effect	ts	
Acute toxicity		
Components	Species	Test Results
Shield-Brite FDL 230SC (CAS# Mixt	ure)	
Acute		
Dermal		
LD50	Rat	>5000 mg/kg, Tested
Inhalation		
LC50	Rat	>5.1 mg/l/4h, Tested
Oral		
LD50	Rat	>5000 mg/kg Tested
Components	Species	Test Results
Fludioxonil (CAS# 131341-86-1)		
Acute		
Dermal		
LD50		>2000 mg/kg, Nufarm Limited
Inhalation		
LC50		>2.6 mg/l/4h, Nufarm Limited
Oral		
LD50		>5000 mg/kg, Nufarm Limited
Components	Species	Test Results
Glycerol (CAS# 56-81-5)		
Acute		
Dermal		
LD50	Guinea pig	56750 mg/kg, ECHA
Inholotion		45 ml/kg, ECHA
Inhalation	Dat	
LC50	Rat	>275 mg/L, 4 hours, ECHA
Oral		275000 mg/m3, 4 hours, ECHA
<i>Oral</i> LD50	Rat	11500 mg/kg, ECHA
Skin corrosion/irritation:		
	Slightly irritating to the skin based on te	יסו עמו מ .
Exposure minutes	Not available	
Erythema value	Not available	
Oedema value	Not available	
Serious eye damage/eye	Non-irritating based on test data.	
irritation:		
Corneal opacity value	Not available	
Iris lesion value	Not available	
Conjunctival reddening	Not available	
value		
	Notavailable	
Conjunctival oedema value	Not available	
Recover days	Not available	
Respiratory sensitization:	Not a respiratory sensitizer.	
Skin sensitization:	This product is not expected to cause s	kin sensitization.
Germ cell mutagenicity:	No data available to indicate product or	any components present at greater
	than 0.1% are mutagenic or genotoxic	· · · · -



Shield-Brite FDL 230SC

	US. California I 1,4-Diox Ethylene Formald Naphtha Propyler	gens onil (CAS# 1313 Proposition 65 cane (CAS# 123 e oxide (CAS# 123 e oxide (CAS # 7 ehyde (CAS 50 llene (CAS # 91 ne oxide (CAS # cifically Regula d. oxicity: organ toxicity e: organ toxicity sure:	5 - CRT 3-91-1 75-21- 0-00-0) 1-20-3) # 75-5 lated S	: Listed date/Carcinogenic substance) 8)	reproductive or developmental effects.
12.	ECOLOG	CAL INF	OR	MATION	
	Ecotoxicity			pelow.	
	Ecotoxicologic	al data	Spec		Test Results
	Components				
	Fludioxonil (CAS	S# 131341-86-1	1)		
	Crustacea	EC50	Daph	nia	0.9 ppm, 48 hr, Nufarm Limited
	Fish	LC50		pow trout	0.47 ppm, 96 hr, Nufarm Limited
	Other	LC50	Duck		>5200 ppm, 8 day, Nufarm Limited
	A	LC50	Quail		>5200 ppm, Nufarm Limited
	Aquatic Fish	1.050	Pluor	vill (Lonomia magraphirup)	0.74 ppm, 96 hr, Nufarm Limited
	Glycerol (CAS#	LC50 56-81-5)	Dine	jill (Lepomis macrochirus)	0.74 ppm, 90 m, Nutarin Linited
	Aquatic	00 01 0)			
	Fish	LC50		oow trout, donaldson trout	51000 – 57000 mg/L, 96 hours
	Dereistenee/de	aradahilitu		orhynchus mykiss)	is product
	Persistence/ de Bioaccumulativ			ata is available on the degradability of th ata available	lis product.
	Mobility in soil			ata available	
	Mobility in gen			vailable.	
	Other adverse		No of	her adverse environmental effects (e.g.	ozone depletion, photochemical
			ozon	e creation potential, endocrine disruption	n, global warming potential) are
			expe	cted from this component.	
40				RATIONO.	
13.	DISPOSA				
	Disposal instru	icuons:		ct and reclaim or dispose in sealed cont sal should be made in accordance with	•
				laws and regulations.	applicable regional, national, and
	Local disposal	Regulations		oose on in accordance with all applicable	e local regulations
	Hazardous was	•		product, in its original form and concentr	
			feder	al hazardous waste when disposed.	C
	Waste from res	idues /		se of in accordance with local regulation	
	unused produc	ts		some product residues. This material a	•
	O and a set of a			afe manner (see: Disposal instructions).	
	Contaminated	packaging		e emptied containers may retain product container is emptied. Empty containers	
				ing site for recycling or disposal.	should be taken to an approved waste
			nana		
14.	TRANSPO	ORT INFO	ORM	IATION	
	Transport of Da			ification method: Classified according to	Part 2. sections 2.1-2.8 of the
	Goods (TDG) P			lations for the transport of dangerous go	
	Classification			roduct classification will appear below.	••
	U.S. Departmen	nt of Transport			
	UN numb			UN3082	
		hipping name:	:	Environmentally hazardous substance	es, liquid, n.o.s.
	Technica	i name:		Fluidioxonil	

Hazard class(es): 9 Ĩ Packing group:



	EPA Reg. # 64864-70	
REGULATIONS	PRECAUTIONARY STATEMENTS:	
	HAZARDS TO HUMANS AND DOME	ESTIC ANIMALS
		tation. Harmful if absorbed through the skir
	-	ing. Remove and wash clothing before reu
	2	r after handling and before eating, drinking
	chewing gum, using tobacco, or using	g the toilet.
TSCA Section 12(b) Expo	ort Notification (40 CFR 707, Subpt. D)	
	Not regulated.	
CERCLA Hazardous Sub	estance List (40 CFR 302.4)	
	Not listed.	
SARA 304 Emergency Re		
	Not regulated.	
US. OSHA Specifically R	egulated Substances (29 CFR 1910.1001 Not listed.	I-1052)
	and Reauthorization Act of 1986 (SARA	
SARA 302 Extremely ha		No
SARA 313 (TRI reporting	g)	Not regulated.
OTHER FEDERAL REGU Clean Air Act (CAA) Sect	LATIONS tion 112 Hazardous Air Pollutants (HAPs	s) List
	Not regulated.	
Clean Air Act (CAA) Sect	tion 112(r) Accidental Release Preventio Not regulated.	n (40 CFR 68.130)
US STATE REGULATION	-	
US - Minnesota Haz Subs		
	Glycerol (CAS# 56-81-5)	Listed
	Glycerol (CAS# 56-81-5) ning Levels: Listed substance	
	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1)	Listed
US - Texas Effects Scree	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5)	
	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List	Listed
US - Texas Effects Scree US. Massachusetts RTK	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5)	Listed
US - Texas Effects Scree US. Massachusetts RTK	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5) and Community Right-to-Know Act	Listed
US - Texas Effects Scree US. Massachusetts RTK US. New Jersey Worker a	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5) and Community Right-to-Know Act Glycerol (CAS# 56-81-5)	Listed
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US - Texas Effects Scree US. Massachusetts RTK US. New Jersey Worker a US. Pennsylvania Worke	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5) and Community Right-to-Know Act Glycerol (CAS# 56-81-5)	Listed
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US - Texas Effects Scree US. Massachusetts RTK US. New Jersey Worker a US. Pennsylvania Worke US. Rhode Island RTK US. California Propositio WARNING: Th State of Califor go to www.P65	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5) and Community Right-to-Know Act Glycerol (CAS# 56-81-5) er and Community Right-to-Know Law Glycerol (CAS# 56-81-5) Glycerol (CAS# 56-81-5) on 65 nis product can expose you to chemicals intrinia to cause cancer and birth defects or ot 5Warnings.ca.gov	Listed Listed cluding Ethylene oxide, which is known to t her reproductive harm. For more information
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US - Texas Effects Scree US. Massachusetts RTK US. New Jersey Worker a US. Pennsylvania Worke US. Rhode Island RTK US. California Propositio WARNING: Th State of Califor go to www.P65	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5) and Community Right-to-Know Act Glycerol (CAS# 56-81-5) er and Community Right-to-Know Law Glycerol (CAS# 56-81-5) Glycerol (CAS# 56-81-5) on 65 his product can expose you to chemicals intrinia to cause cancer and birth defects or ot 5Warnings.ca.gov on 65 - CRT: Listed date/Carcinogenic su 1,4-Dioxane (CAS# 123-91-1)	Listed Listed cluding Ethylene oxide, which is known to t her reproductive harm. For more information Ibstance Listed: January 1, 1988
US - Texas Effects Scree US. Massachusetts RTK US. New Jersey Worker a US. Pennsylvania Worke US. Rhode Island RTK US. California Propositio WARNING: Th State of Califor go to www.P65	Glycerol (CAS# 56-81-5) ening Levels: Listed substance Fludioxonil (CAS# 131341-86-1) Glycerol (CAS# 56-81-5) - Substance List Glycerol (CAS# 56-81-5) and Community Right-to-Know Act Glycerol (CAS# 56-81-5) er and Community Right-to-Know Law Glycerol (CAS# 56-81-5) Glycerol (CAS# 56-81-5) Glycerol (CAS# 56-81-5) on 65 his product can expose you to chemicals intrinia to cause cancer and birth defects or ot 5Warnings.ca.gov on 65 - CRT: Listed date/Carcinogenic su 1,4-Dioxane (CAS# 123-91-1) Ethylene oxide (CAS# 75-21-8)	Listed Listed cluding Ethylene oxide, which is known to t her reproductive harm. For more information Ibstance Listed: January 1, 1988 Listed: July 1, 1987
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Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Concela	Demostic Culestances List (DCL)	Nia

Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA)	No
	Inventory	

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION



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, 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, 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. 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) may provide more information than the product label but does not replace or modify the product labeling (attached to and accompanying the product container). The product SDS and the product label both provide consistent and important health, safety, and environmental information as required by the Occupational Health and Safety Act (29 CFR 1910.1200, "Hazcom"). This requirement covers employees, emergency responders, users and others handling the product. All necessary hazard classification and appropriate precautionary, use, storage, and disposal information are set forth on the labeling and the SDS.

SDS preparation date:April 1, 2021Replaces SDS dated:May 26, 2015Changes since lastSeveral changes, new formulationVersion:2revision:Changes since lastChanges since lastChanges since lastChanges since last

