

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

Shield-Brite[®] PenbotecTM 400 SC

EPA Reg # 43813-32-64864

POSTHARVEST

SAFETY DATA SHEET

PRODUCT & COMPANY IDENTIFICATION 1.

Product Name: **Product Code:**

Supplier:

Shield-Brite[®] Penbotec[™] 400 SC

10182

Product Use: For Post Harvest Use on Pome Fruits 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)

HAZARDS IDENTIFICATION 2.

Classification:

Acute Aquatic Toxicity, Category 2 Long Term Aquatic Toxicity, Category 2 Hazard Symbols:



Hazard Statements: WARNING H401 Toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements: Prevention Statements: P273 Avoid release to the environment. **Response Statements:** P391 Collect spillage. **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 Mixture / Ingredient CAS # Concentration (w/w %) Pyrimethanil (ISO) 53112-28-0 >=30 % - <50 % Other ingredients balance FIRST AID MEASURES 4. General Have the product container, label or Safety Data Sheet with you when calling a poison control Advice: center or physician, or going for treatment. If on Skin: Take off contaminated clothing. Wash skin with plenty of soap and water for 15-20 minutes. If redness, burning, or irritation persists, get medical advice/attention. Wash contaminated clothing before reuse. If in Eyes: Hold eve 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. Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able If Swallowed: to swallow. 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. Move person to fresh air. If person is not breathing, call 911 or an ambulance, and then give If Inhaled: artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Most No information available. important symptoms and effects, both acute and delayed Notes to Treat symptomatically. physician





^C Pace International

Methods:

Shield-Brite[®] PenbotecTM 400SC

5. FIRE FIGHTING MEASURES

	Extinguishing Media:	Use water mist, dry powder, foam, carbon dioxide (CO ₂), sand, or aqueous film forming foam. Can cool containers with water spray.
	Unsuitable extinguishing media:	Water spray jet
	Specific hazards during fire- fighting:	Heating can release hazardous gases, carbon oxides. Do not allow run-off from firefighting to enter drains or water courses.
	Hazardous combustion products:	Carbon oxides
	Special Protective Equipment / Procedures for Firefighters:	Wear self-contained breathing equipment and fire resistant personal protective equipment.
6.	ACCIDENTAL RELE Personal precautions, protective equipment and emergency procedures:	ASE MEASURES Evacuate personnel to safe areas. Keep away from open flames, hot surfaces and sources of ignition.

Environmental Precautions: 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. Containment / Clean-Up 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

Handling: Avoid contact with skin and eyes. Good standards of hygiene should be maintained at all times. Ensure all equipment is electrically grounded before beginning transfer operations. To avoid thermal decompositions, do not overheat. Keep away from open flames, hot surfaces and sources of ignition. For personal protection see Section 8. Storage: Store in a cool, dry area at room temperature and away from direct sunlight. Keep in orginal container and tightly closed when not in use. Keep out of reach of children and livestock. Store away from heat and sources of ignition. Keep away from food and drink, as well as other feeding supplies.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Engineering Controls:	Contains no substances with occupational exposure limit values. 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.
Personal Protective	Clothing: Wear impermeable clothing such as long-sleeved shirt, long pants,
Equipment :	shoes, socks and chemical resistant gloves.
	Eye Protection: Wear safety glasses. Eye fountain and washing facilities should be present at work area. Respiratory Protection: Not normally required under normal treatment at room temperature. In dusty or misty environments, use a NIOSH-approved
	organic vapor acid gas cartridge respirator with any N, P, R, or HE pre-filter.

9. PHYSICAL & CHEMICAL PROPERTIES

Physical:	Liquid suspension	Upper/Lower flammability limits:	Not applicable
Appearance:	Opaque, white	Vapor pressure:	Not available
Odor:	Very faint characteristic	Vapor density: (air =1)	Not available
Odor threshold: pH:	Not available 7.76	Specific Gravity: (H₂O = 1) Solubility:	1.075 (20°C) Dispersible

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Melting/Freezing point:	Not applicable	Partition coefficient (n-octanol-water):	Not available
Boiling point:	Not applicable	Auto-ignition temperature:	479°C
Flash point:	>93°C	Decomposition temperature:	Not available
Evaporation rate:	Not available	Viscosity:	91 – 991 mPa.s (20°C)
Flammability (solid, gas):	Not available	Explosive properties:	53 – 307 mPa.s (40°C) Not explosive
, (, 3 ,-		Oxidizing properties:	Not oxidising (not expected to be oxidising based on components)

10. STABILITY & REACTIVITY

Reactivity hazards:	None known
Chemical stability:	Stable under recommended storage conditions
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	To avoid thermal decomposition, do not overheat. Avoid heat, flames, sparks, exposure to direct sunlight.
Incompatible materials: Hazardous decomposition	Strong oxidizing agents.
products:	Carbon oxides, nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

••	Acute toxicity of	Acute Oral:	LD ₅₀ : > 2000 mg/kg
	Product:		(Rat, male and female)
		Acute Dermal:	LD ₅₀ (Rat): > 2000 mg/kg
			Method: OECD Test Guideline 402
		Inhalation:	LC ₅₀ (Rat) : > 0.98 mg/L
			Exposure Time: 4 h
			Test atmosphere: dust/mist
			Method: OECD Test Guideline 403
			Assessment: The substance or mixture has no acute inhalation toxicity.
		Skin corrosion/ir	5
		•••••••••••	Species: Rabbit
			Method: OECD Test Guideline 404
			Result: No skin irritation
		Serious eye dam	age/eye irritation:
			Species: Rabbit
			Method: OECD Test Guideline 405
			Result: No eye irritation
		Respiratory or sl	kin sensitization:
			Species: Guinea pig
			Method: Guinea pig maximization assay (GPMT) (OECD 406)
			Result: Does not cause skin sensitization
		Germ Cell Mutag	
			Genotoxicity in vitro: No data available
			No Data Available
		Reproductive To	
			Effects on fertility: no data available
			Effects on fetal development: no data available
			posure: No data available
			exposure: No data available
		Repeated Dose to	oxicity: No data available
	Acute toxicity of	Pyrimethanil (ISC))
	Ingredient:	Acute Oral:	LD ₅₀ (Rat): 4150 mg/kg
	Pyrimethanil (ISO)	Acute Dermal:	LD_{50} (Rat): > 5000 mg/kg
	,		Method: OECD Test Guideline 402
		Inhalation:	LC ₅₀ (Rat): > 1.98 mg/L
			Exposure Time: 4 h
			Test atmosphere: dust/mist
			Method: OECD Test Guideline 403
			Assessment: The substance or mixture has no acute inhalation
			toxicity.



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	Skin corrosion/iri	ritation:	
		Species: Rabbit	
		Method: OECD Test Guideline 404	
	Serious eve dama	Result: No skin irritation age/eye irritation:	
	· · · · · · · · · · · · · · · · · · ·	Species: Rabbit	
		Method: OECD Test Guideline 405	
	Respiratory or sk	Result: No eye irritation	
		Test Type: Maximization Test (GPMT)	
		Species: Guinea pig	
		Method: OECD Test Guideline 406 Result: Not a sensitizer	
	Germ Cell Mutage		
	-	Genotoxicity in vitro: In vitro tests did not show	
		Germ Cell Mutagenicity Assessment: Test on mammalian cell cultures did not show mu	
	Carcinogenicity:	Animal testing did not show any carcinogenic	
	IARČ	No component of this product present at leve equal to 0.1% is identified as probable, po human carcinogen by IARC.	els greater than or
	OSHA	No component of this product present at leve equal to 0.1% is identified as a carcinoge	
	NTP	carcinogen by OSHA No component of this product present at lev equal to 0.1% is identified as a known or	0
	B	carcinogen by NTP	
	Reproductive Tox	Effects on fertility: fertility and developmental	I toxicity tests did not
		reveal any effect on reproduction.	
		Effects on fetal development: did not show to	eratogenic effects in
		animal experiments. Reproductive toxicity: Animal testing did not a fertility.	show any effects on
		Teratogenicity assessment: Animal testing di effects on fetal development.	id not show any
		posure: No data available	
		exposure: No data available oxicity: No adverse effect has been observed	in chronic toxicity
		tests.	In emonie toxicity
	Aspiration toxicit	y: No aspiration toxicity classification	
12. ECOLOGICAL IN Toxicity:) N nchus mykiss(rainbow trout) 41.6 mg/l	Based on Product
Toxicity.	Exposure time 9		Based on Froduct
		(water flea)):6.73 mg/l Exposure time 48 hr	
	· ·	irchneriella subcapitata (green algae)): 10.5	
	mg/I Exposure t Pyrimethanil (I		Based on Ingredient
		nchus mykiss(rainbow trout) 10.56 mg/l	-
	Exposure time 9	96 hr (water flea)):2.9 mg/l Exposure time 48 hr	
		irchneriella subcapitata (green algae)): 1.2	
	mg/I Exposure t		
		l sludge) 360 mg/l Exposure time 3 hr etida (earthworms)) 625 mg/kg Exposure	
	time 14 days		
		rirginianus (Bobwhite quail)) >2000 mg/kg	
Persistence/ degradability:	Product: not av Pyrimethanil (I		
		ily biodegradable, Method: OECD Test Guide	line 301B
Bioaccumulative potential:	Product: not av		
	Pyrimethanil (I Result: Due to t	SO) he distribution coefficient n-octanol/water, acc	umulation in organisms
	is not expected.		
Partition coefficient: n-	Log Pow: 2.84		
octanol/water Mobility in soil:	pH: 6.1 Not data availab	ble	
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Other adverse effects: Very toxic to aquatic life with long lasting effects. Results of PBT and vPvB This mixture contains no substance considered to be persistent, bioaccumulating and Assessment: toxic (PBT) Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric **Ozone-Depletion Potential:** Ozone-CAA Section 602 Class 1 Substances-this product neither contains, nor was manufactured with a Class 1 or Class 11 ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

13. DISPOSAL CONSIDERATIONS

Disposal methods:

Container disposal:>= 55 gallons in size. Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse (or equivalent). Then offer for recycling or reconditioning, 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 containers <= 5 gallons in size. Empty the remaining con-tents 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 be-gins to drip. Repeat this procedure two more times.

14. TRANSPORT INFORMATION

	DOT	IMDG	IATA
UN number:	UN 3082	UN 3082	UN 3082
Proper shipping name:	Environmentally	Environmentally	Environmentally
	hazardous substance,	hazardous substance,	hazardous substance,
	liquid, n.o.s.(pyrimethanil)	liquid, n.o.s.(pyrimethanil)	liquid, n.o.s.(pyrimethanil)
Hazard class(es):	9	9	9
Packing group:	111	111	111
Labels:	9	9	9
Guidebook Number			
Environmentally			
hazardous:	No		No
EmS Number 1		F-A	
EmS Number 2		S-F	
Packing Instruction			
(CAO):			964
Packing Instruction			
(PAX and CAO):			964
Packing Instruction (LQ)			Y964
Packing Instruction (EQ)			E1
Marine Pollutant:		Yes	
Special precautions:	None		
Emergency Response:	171		
	ng to Annex II or MARPOL 7	3/78 and the IBC Code	
Pollution Category:			
Ship Type:			

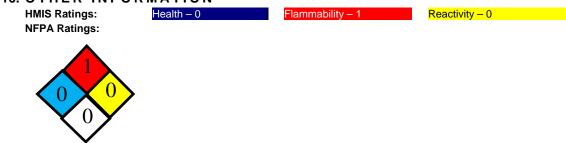
15. REGULATORY INFORMATION

EPCRA	Emergency Planning and C	Community Right-to-Know Act				
SARA 302:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.					
SARA 313:	RA 313: This material does not contain any chemical components with known CAS numbers th exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section					
Clean Air Act:	ean Air Act:This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A+B). This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61). 		vt. A, App.A+B). P), as defined by the U.S. . Clean Air Act Section art F).			
Clean Water Act:	Act, Section 311, Table 116.	n any Hazardous Substances listed 4A. n any Hazardous Chemicals listed u				
Massachusetts Right to Know		to the Massachusetts Right to Know	Act.			
Pennsylvania Right	Alcoxylated alcohol	CAS# Not assigned	50 – 70 %			



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to Know	Pyrimethanil (ISO)	CAS# 53112-28-0	30 – 50 %
	Sodium propionate	CAS# 137-40-6	1 – 5 %
New Jersey Right	Alcoxylated alcohol	CAS# Not assigned	
to Know	Pyrimethanil (ISO)	CAS# 53112-28-0	30 – 50 %
	Sodium propionate	CAS# 137-40-6	1 - 5 %
California Prop 65	This product does not contain	any chemicals known to the Sta	te of California to cause
	cancer, birth defects, or any c	other reproductive harm.	
FIFRA:	Shield-Brite		
	registration number 43813-32	-64864.	
The components of t	his product are reported in th	e following inventories:	
Inventorioo	is subject to certain labeling r differ from the classification c and for workplace labels or no required on the pesticide labe : Caution : Harmful if swallowed, inhale : Avoid contact with skin, eye : Prolonged or frequently repo : Avoid breathing spray mist.	d, or absorbed through the skin. s or clothing. eated skin contact may cause alle	ide law. These requirements uired for safety data sheets, g is the hazard information as
Inventories:		la), IECSC (China), REACH (Eur NZIoC (New Zealand), PICCS (P	



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:August 21, 2017Replaces MSDS dated:May 3, 2016Changes since lastMinor changes, Section 3, 4, 5, 6, 7, 9, 10, 12, 13 and 15may 3, 2016revision:Minor changes, Section 3, 4, 5, 6, 7, 9, 10, 12, 13 and 15