

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

PacRite[®] Penbotec™ 400 SC

POSTHARVEST

SAFETY DATA SHEET

1. PRODUCT & COMPANY IDENTIFICATION

Product Name:

EPA Reg # 43813-32-64864

 Product Code:
 10163

 Product Use:
 For Control of Post Harvest Decay

 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: 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.

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3.	COMPOSI	FION/INFORMA	TION ON INGRED	IENTS
	Ingredient		<u>CAS #</u>	Concentration (w/w %)
	Pyrimethanil (ISO))	53112-28-0	>=30 % - <50 %
	Other ingredients			balance
4.	FIRST AID	MEASURES		
	General	Have the product containe	er, label or Safety Data Sheet v	vith you when calling a poison control
	Advice:	center or physician, or goi	ng for treatment.	
	If on Skin:			soap and water for 15-20 minutes. If
		redness, burning, or irritat before reuse.	ion persists, get medical advice	e/attention. Wash contaminated clothing
	If in Eyes:		slowly and gently with water for	15 – 20 minutes. Remove contact lenses,
	. ,			eye. Get medical advice/attention.
	If Swallowed:			e. Have person sip a glass of water if able
				by a poison control center or doctor. Do
			h to an unconscious person.	211 or on ombulance, and then give
	If Inhaled:	•		911 or an ambulance, and then give le. Call a poison control center or doctor
		for treatment advice.	ably mouth-to-mouth, it possib	
	Most	No information available.		
	important			
	symptoms and			
	• •			
	effects, both			
	acute and			
	delayed:			
	Notes to	Treat symptomatically.		

physician:





5. FIRE FIGHTING MEASURES

	Extinguishing Media: Unsuitable extinguishing media:	Use water mist, dry powder, foam, carbon dioxide (CO ₂), sand, or aqueous film forming foam. Can cool containers with water spray. 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 /	Wear self-contained breathing equipment and fire resistant personal protective
	Procedures for Firefighters:	equipment.
6.	ACCIDENTAL RELE	ASE MEASURES
	Personal precautions,	Evacuate personnel to safe areas.
	protective equipment and emergency procedures:	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 Methods:	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

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 Equipment :	 Clothing: Wear impermeable clothing such as long-sleeved shirt, long pants, 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:	Not available	Specific Gravity: (H ₂ O = 1)	1.075 (20°C)
pH:	7.76	Solubility:	Dispersible





based on components)

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)
			53 – 307 mPa.s (40°C)
Flammability (solid, gas):	Not available	Explosive properties:	Not explosive
		Oxidizing properties:	Not oxidising (not
			expected to be oxidising

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

11. TOXICOLOGICAL INFORMATION

11. T O	XICOLOGICA	L INFORM/	ATION
Acu	te toxicity of	Acute Oral:	LD_{50} : > 2000 mg/kg
Proc	duct:		(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	
			Species: Rabbit
			Method: OECD Test Guideline 404
			Result: No skin irritation
		Serious eve dam	age/eye irritation:
		·····	Species: Rabbit
			Method: OECD Test Guideline 405
			Result: No eye irritation
		Respiratory or sk	
			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
		Carcinogenicity:	No Data Available
		Reproductive To:	
			Effects on fertility: no data available
			Effects on fetal development: no data available
		STOT – single ex	posure: No data available
			exposure: No data available
			oxicity: No data available
			····· , ·······························
Acu	te toxicity of	Pyrimethanil (ISC)
	edient:	Acute Oral:	LD ₅₀ (Rat): 4150 mg/kg
	methanil (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.





Skin con	region limitation.
	rosion/irritation: Species: Rabbit
	Method: OECD Test Guideline 404
	Result: No skin irritation
Serious e	eye damage/eye irritation:
	Species: Rabbit Mathed: OFCD Test Quideline 405
	Method: OECD Test Guideline 405 Result: No eye irritation
Respirate	ory or skin sensitization:
	Test Type: Maximization Test (GPMT)
	Species: Guinea pig
	Method: OECD Test Guideline 406
Corm Co	Result: Not a sensitizer
Germ Ce	II Mutagenicity: Genotoxicity in vitro: In vitro tests did not show mutagenic effects
	Germ Cell Mutagenicity Assessment: Test on bacterial or
	mammalian cell cultures did not show mutagenic effects
	jenicity: Animal testing did not show any carcinogenic effects
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	A No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential
NTP	carcinogen by OSHA No component of this product present at levels greater than or equal to 0.10° is identified as a lengum or activity to 0.10°.
	equal to 0.1% is identified as a known or anticipated carcinogen by NTP
Reprodu	ctive Toxicity:
	Effects on fertility: fertility and developmental toxicity tests did not
	reveal any effect on reproduction.
	Effects on fetal development: did not show teratogenic effects in animal experiments.
	Reproductive toxicity: Animal testing did not show any effects on
	fertility. Teratogenicity assessment: Animal testing did not show any
	effects on fetal development.
STOT – s	single exposure: No data available
	epeated exposure: No data available
Repeated	d Dose toxicity: No adverse effect has been observed in chronic toxicity
	toete
Aspiratio	tests. n toxicity: No aspiration toxicity classification
Aspiratio	tests. on toxicity: No aspiration toxicity classification
	on toxicity: No aspiration toxicity classification
12. ECOLOGICAL INFORM	on toxicity: No aspiration toxicity classification
12. ECOLOGICAL INFORM Toxicity: LC50 (ATION
12. ECOLOGICAL INFORM Toxicity: LC50 (Expose EC50 (A TION Oncorhynchus mykiss(rainbow trout) 41.6 mg/l Based on Product Daphnia(water flea)):6.73 mg/l Exposure time 48 hr
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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 Co	ommunity Right-to-Know Act	
SARA 302:		are subject to the reporting requirer	ments of SARA Title III,
SARA 313:		any chemical components with kn mis) reporting levels established b	
Clean Air Act:	This product neither contains, defined by the U.S. Clean Air This product does not contain Clean Air Act Section 12 (40 C	nor was manufactured with a Clas Act Section 602 (40 CFR 82, Subp any hazardous air pollutants (HAP CFR 61).	s I or Class II ODS as t. A, App.A+B). y), as defined by the U.S.
		ny chemicals listed under the U.S. Prevention (40 CFR 68.130, Subpa	
		any chemicals listed under the U.S	
Clean Water Act:	This product does not contain Act, Section 311, Table 116.4.	any Hazardous Substances listed	under the U.S. Clean Water
	This product does not contain Act, Section 311, Table 117.3	any Hazardous Chemicals listed u	nder the U.S. Clean Water
Massachusetts Right to Know	No components are subject to	the Massachusetts Right to Know	Act.
Pennsylvania Right	Alcoxylated alcohol	CAS# Not assigned	50 – 70 %



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 ® Penbotec 400	SC is registered as a pesticide w	rith the U.S. EPA under
	registration number 43813-32	-64864.	
The components of	this product are reported in th	e following inventories:	
Inventorios	is subject to certain labeling r differ from the classification c and for workplace labels or n- 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 15revision: