



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

January 23, 2023

Dr. Simone Seifert-Higgins  
Regulatory Affairs Manager  
Pace International, LLC  
5661 Branch Rd.  
Wapato, Wash. 98951

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Adding optional text to precautionary section of label  
Product Name: Pace EXC5500  
EPA Registration Number: 64864-78  
EPA Receipt Date: 11/14/2022  
Action Case Number: 00408860

Dear Dr. Seifert-Higgins:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining

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EPA Reg. No. 64864-78

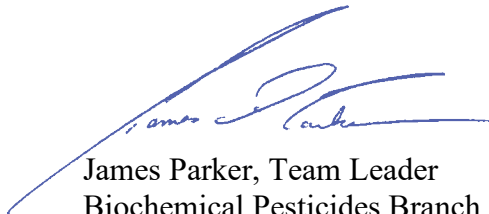
Action Case No. 00408860

a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

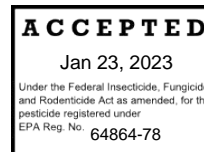
If you have any questions, please contact Nina Naimy via email at [naimy.nina@epa.gov](mailto:naimy.nina@epa.gov).

Sincerely,



James Parker, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511M)  
Office of Pesticide Programs

Enclosure



## Pace EXC 5500

[Alternate Brand Name: FreshVue™ Pods]  
[Alternate Brand Name: FreshVue™ Pods Mini]

[A postharvest ethylene management tool to extent shelf life of fruits and vegetables]

[A postharvest tool for counteracting internal and external sources of ethylene on harvested fruit and vegetables.]

**Active Ingredient:**

1-Methylcyclopropene .....	3.3%
Other Ingredients .....	<u>96.7%</u>
Total.....	100.0%

EPA REGISTRATION NO. 64864-78

EPA EST. NO.

[**NOTICE:** Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product and the proprietary delivery device unopened and unused within thirty days of purchase to the place of purchase.]

### KEEP OUT OF REACH OF CHILDREN CAUTION

[See [attached] [booklet] [panel] for First Aid, additional Precautionary Statements, Directions for Use, and Storage and Disposal Statements.]

<b>FIRST AID</b>	
If inhaled	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15- 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If swallowed	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>

**HOT LINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-888-271-4649 (24 hours) for emergency medical treatment and 1-800-424-9300 (24 hours) for transport emergency information.

*{Note to Reviewer: [For MEDICAL Emergencies call 24 hours a day 1-888-271-4649; For TRANSPORT Emergencies call 24 hours a day 1-800-424-9300] may be used on front and back panels of booklet label;}*

**Net Contents:**

**[Pace EXC 5500 Water Soluble Pods Sizes**

0.009 oz (0.25 grams)	0.35 oz (10.0 grams)	2.7 oz (77.0 grams)
0.012 oz (0.35 grams)	0.45 oz (12.9 grams)	3.2 oz (89.3 grams)
0.018 oz (0.5 grams)	0.53 oz (15.0 grams)	3.8 oz (106.3 grams)
0.025 oz (0.7 grams)	0.63 oz (17.8 grams)	4.3 oz (123.2 grams)
0.035 oz (1.0 grams)	0.70 oz (20.0 grams)	4.8 oz (135.0 grams)
0.046 oz (1.3 grams)	0.87 oz (24.6 grams)	5.5 oz (155.3 grams)
0.064 oz (1.8 grams)	1.0 oz (29.6 grams)	6.0 oz (170.4 grams)
0.09 oz (2.5 grams)	1.2 oz (34.0 grams)	6.6 oz (187.9 grams)
0.12 oz (3.5 grams)	1.4 oz (40.5 grams)	7.2 oz (204.0 grams)
0.17 oz (4.9 grams)	1.7 oz (46.9 grams)	7.8 oz (220.0 grams)
0.22 oz (6.3 grams)	2.0 oz (55.8 grams)	8.2 oz (232.3 grams)
0.27 oz (7.7 grams)	2.3 oz (64.7 grams)	8.6 oz (244.6 grams)
0.32 oz (9.1 grams)		

]

Lot No.

Manufactured for: Pace International LLC  
5661 Branch Road  
Wapato, WA 98951  
800.936.6750

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if inhaled, swallowed, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material

Follow manufacturer's instructions for cleaning / maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**DIRECTIONS FOR USE**

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation. All applicable directions, restrictions, precautions and conditions of sale and warranty are to be followed. This labeling must be in the user's possession during application.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas until the treated area has been vented for 30 minutes using fans or other mechanical ventilating systems. The restricted entry interval (REI) is 30 minutes.

PPE required for early entry to treated areas prior to venting is:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- A NIOSH approved respirator with an organic vapor cartridge with a combination N, R or P filter NIOSH approval prefix TC-84A; or a NIOSH approved gas mask with organic vapor canister NIOSH approval prefix TC-14G.

**GENERAL INFORMATION**

Pace EXC 5500 is a powder that, when mixed with water in a proprietary delivery device provided by Pace International LLC, releases the volatile active ingredient 1-Methylcyclopropene (1-MCP).

Pace EXC 5500 is a postharvest tool for counteracting undesirable effects of both internal (produced within the fruit and vegetables) and external sources of ethylene on harvested fruit and vegetables. By counteracting ethylene, Pace EXC 5500 provides the following benefits to the treated fruit and vegetables during storage and transport:

- . Maintaining firmness
- . Maintaining titratable acidity
- . Preventing superficial scald and soft scald on pome fruit
- . Reducing internal ethylene production
- . Protection from external sources of ethylene
- . Reducing fruit respiration
- . Delaying ripening and senescence
- Reducing incidence of peel greasiness in apples
- . Reducing incidence of core flush and mealiness in pome fruit
- . Reducing chilling injury

Pace EXC 5500 can be used immediately after harvest, prior to storage, prior to shipment and/or just prior to sale. Pace EXC 5500 is effective under both cool (below 55°F, 13°C) and warm (above 55°F, 13°C) temperature conditions. To realize maximum benefit in controlling senescence, product must be applied as soon as possible and/or within 2 weeks after harvest.

Harvested fruits and vegetables must be exposed to the volatile active ingredient of Pace EXC 5500 in enclosed storage rooms, greenhouses, coolers, shipping containers, enclosed truck trailers, or ambient temperature, refrigerated, or controlled atmosphere food storage facilities. **Do not use this product outdoors or in other non-enclosed areas.** Enclosed treatment areas must be gas tight as leakage will reduce Pace EXC 5500's effectiveness.

### **Fruit and Vegetable Storage Conditions**

Pace EXC 5500 is compatible with and complementary to fruit and vegetables stored under both controlled atmosphere and regular air fruit storage conditions. Pace EXC 5500 must be used in air-tight treatment areas.

### **Timing of Harvest and Application**

Add Pace EXC 5500 to the treatment area containing fruit and vegetables immediately after harvest, upon entering storage or in transit. Do not use with fruit or vegetables previously treated with Ethephon. To realize maximum benefit for optimum quality, fruit need to be pre-cooled promptly and treated with Pace EXC 5500 as soon after harvest as possible and before the climacteric peak of respiration has occurred. Best results from Pace EXC 5500 are obtained with fruit and vegetables at the optimum maturity level for long term storage. After application, store fruit and vegetables not for immediate sale according to good standard commercial practices, in either refrigerated air or controlled atmosphere. Store fruit to be held longer than 6 months in a controlled atmosphere.

Maintaining the cold chain (keeping the fruit and vegetables cool at all times) and strict adherence to phytosanitary practices is essential in maintaining safe and high-quality fruit and vegetables. See Table 1 below for optimum application timing of EXC 5500 and appropriate length of treatment time per crop.

Table 1: Optimum Pace EXC 5500 application timing and length of treatment time

Crop	Time of Application	Pace EXC5500 Treatment Time
Apple, Apricot, Nectarine, Peach, Pear, Plum, Plumcot	As soon and/or within 2 weeks after harvest, and/or after long term storage and/or prior transport and distribution	24 hours
Asian Pear	As soon and/or within 2 weeks after harvest	15 hours
Avocado	As soon after harvest at the physiological maturity stage or just prior to the "turning black stage"	12 hours
Banana	After exposure to ethylene and prior to reaching color stage 4	12 hours
Broccoli, Kiwifruit, Mango, Melon, Papaya, Persimmon	As soon and/or within 2 weeks after harvest, and/or after long term storage and/or prior transport and distribution	12 hours
Tomato	Between Color Stage 1 (mature green) and Color Stage 5 (light red)	12 hours

*{Note to Reviewer: (\*) and (\*\*) Not for use in California} may be used in association with any crop throughout this label.*

#### APPLICATION METHOD

Prior to application, ensure that the treatment area can be properly and promptly sealed following application.

Pace EXC 5500 is applied using a Proprietary Delivery Device equipped with air pump(s) provided by Pace International LLC. Fill treatment area with fruit and vegetables. Place the appropriate number of delivery devices on a stable surface in the treatment area within the air flow from the internal refrigeration system. Add 2 gallons (8 liters) of potable water to the device. The water temperature must be approximately 20 degrees to 40 degrees Centigrade (68 to 104 degrees Fahrenheit). Add approximately 0.25 ounces (5-10 ml) defoamer to the water contained in the delivery device, if needed. Prepare air pumps by securing one end of the tubing to the pump outlet(s) and the other end to the bubbling stone(s). Turn on the air pump(s) and place the bubbling stone(s) into the delivery device. Make sure bubbles are being generated and the stone(s) is on the bottom of the delivery device. If the treatment area requires the use of multiple delivery devices repeat these steps for each device.

Consult Table 2 below to determine the number of EXC 5500 pods required for the treatment area. Selection of appropriate number of pods is based on the volume of treatment area. Calculate the treatment area volume by measuring the length, width and height of the treatment area in feet. Multiply these three numbers together to obtain the treatment area volume in cubic feet. For example, if a room is 4 feet wide, 50 feet long and 5 feet high, the treatment area volume equals 1,000 cubic feet. To determine the amount of Pace EXC 5500 powder, multiply the treatment volume by the rate shown in Table 2 for the selected crop and use the pods that correspond to the calculated amount.

Table 2. Selection of Appropriate Number of Pace EXC 5500 Pods

Crop	Rate per 1,000 ft <sup>3</sup> [*]		Restriction
	ounces	grams	
Apple, Asian Pear, Avocado, Broccoli	0.051 - 0.067	1.4 – 1.9	Do not apply more than 0.067 ounces/1,000 ft <sup>3</sup> (1.9 grams/1,000 ft <sup>3</sup> )
Apricot, Kiwifruit, Mango, Melon, Nectarine, Papaya, Peach, Persimmon, Plum, Plumcot, Tomato	0.031– 0.034	0.87 – 0.96	
Banana	0.017 – 0.020	0.48 – 0.58	
Pear	0.02 – 0.04	0.58 – 1.2	

[\* Each water-soluble EXC 5500 pod contains .... ounces (.... grams) of 1-MCP powder.]

[\* Each water-soluble EXC 5500 pod contains sufficient 1-MCP powder to treat ..... ft<sup>3</sup> at a rate of ..... ounces/1,000 ft<sup>3</sup> (grams/1,000 ft<sup>3</sup>)]

Remove the appropriate number of water soluble EXC 5500 pods from the protective foil packet and drop pods into the water contained in the device. Use no more than 8.2 ounces (232 grams) per delivery device for optimum 1-MCP release. Immediately leave the treatment area. Close the door to the treatment area and make sure there is an air-tight seal in order to contain the 1-MCP vapor to ensure the maximum efficacy of 1-MCP. Release of the 1-MCP into the treatment area will start several minutes after the water-soluble pod is added to the delivery device.

After the area is sealed, post a sign on all entrances to the treatment area. The sign must read **“CAUTION. Do not enter area. Pace EXC 5500 treatment in progress.”** The doors must remain sealed for the crop-specific treatment time (see Table 1) to ensure effective Pace EXC 5500 treatment. Entrance to the room prior to these time periods will reduce effectiveness of the treatment. During the treatment, refrigeration and internal air circulation system must be running to ensure good air circulation. All vents to outside air should be closed, and any ethylene scrubbing devices or ozone generating equipment should be turned off. At the end of the Pace EXC 5500 treatment period, vent the treated room by opening the doors for a minimum of thirty minutes with continued full internal ventilation before allowing workers to enter. At the end of the room venting, remove the delivery device. The spent water contained in the delivery device can be disposed by pouring down asuitable drain.

**Restrictions**

- Restricted Entry Period (REI): 30 minutes after room has been vented
- Do not smoke during the Pace EXC 5500 application.



### **STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Store in original packaging in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty outer foil package in trash. Triple rinse the delivery device with water after use. Instructions for returning the used devices will be provided by Pace International LLC.

### **NOTICE TO BUYER**

**IMPORTANT:** Read the information below before using this product. If the terms are not acceptable, you should return the unopened product container and delivery device immediately for a complete refund.

### **LIMITED WARRANTY, TERMS OF SALE, AND LIMITATION OF LIABILITY**

Upon purchase of this product, purchaser and user agree to the following terms:

**Warranty:** Pace International, LLC (the Company) warrants that this product conforms to the chemical description on the label in all material respects. To the extent consistent with applicable law the Company makes no further warranties and expressly disclaims any implied warranties of merchantability or fitness for a particular purpose and any representation or warranty.

**Terms of Sale:** The Company's directions for use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, and the manner of use or application (including failure to adhere to label directions), all of which are beyond the Company's control. To the extent consistent with applicable law, all such risks are assumed by the user.

**Limitations of Liability:** To the extent consistent with applicable law, the exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damages, and in no event shall damages or any other recovery of any kind exceed the price of the product which caused the alleged loss, damage, injury, or other claim. To the extent consistent with applicable law, under no circumstances shall the Company be liable for any special, indirect, incidental, or consequential damages of any kind, including loss of profits or income.

To the extent consistent with applicable law, The Company and the seller offer this product, and the purchaser and user accept this product, subject to the foregoing warranty, terms of sale, and limitation of liability, which may be varied or modified only by an agreement in writing signed on behalf of the Company by an authorized representative.