



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

92120-6

Date of Issuance:

09/28/2021

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Hazel 312™

Name and Address of Registrant (include ZIP Code):

Hazel Technologies, Inc.  
3440 South Dearborn St.  
Suite 112S  
Chicago, IL 60616

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Date:

09/28/2021

2. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, “EPA Reg. No. 92120-6.”
3. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

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 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 false or misleading statements or claims substantially differing from the EPA-approved 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. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 07/06/2021

Any CSFs other than those listed above are superseded.

If you have any questions, please contact Susannah Powell of my team via email at [powell.susannah@epa.gov](mailto:powell.susannah@epa.gov).

Sincerely,



Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

**MASTER LABEL**

**Sublabel A: Agriculture [Fruits and Vegetables]**

**Sublabel B: Ornamental and Cut Flowers**

**Individual Unit Label**

**A C C E P T E D**

Sep 28, 2021

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under

EPA Reg. No. 92120-6

Sublabel A: Agriculture [Fruits and vegetables]

## Hazel 312<sup>TM</sup>

[A [novel] post-harvest tool for counteracting the undesirable effects of [both internal and external sources of] ethylene by counteracting premature [early] color break on [harvested] [post-harvest] fruits and vegetables.]

[For management of post-harvest freshness]

**Active Ingredients:**

1-Methylcyclopropene ..... 2.0%  
Other Ingredients ..... 98.0%  
**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION[/PRECAUCIÓN]**

[Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)]

EPA Est. No.:

EPA Reg. No.: 92120-A

**Manufactured [by][for]:**

Hazel Technologies, Inc.  
3440 S. Dearborn St.  
Suite 112S  
Chicago, IL 60616

**Net Contents:**

**[Sachets] [per package][Unit Package Size][Sachet Count]:**

[One][1]	[One hundred and fifty][150]	[Two thousand][2000]
[Two][2]	[Two hundred][200]	[Two thousand five hundred][2500]
[Five][5]	[Two hundred and fifty][250]	[Three thousand][3000]
[Ten][10]	[Five hundred][500]	[Three thousand five hundred][3500]
[Twenty][20]	[Six hundred][600]	[Four thousand][4000]
[Twenty five][25]	[Seven hundred and fifty][750]	[Four thousand five hundred][4500]
[Fifty][50]	[Eight hundred][800]	[Five thousand][5000]
[Seventy five][75]	[One thousand][1000]	
[One hundred][100]	[One thousand five hundred][1500]	

**[Hazel 312<sup>TM</sup> Sachet Size][Sachet Size][One sachet contains]:**

0.004 oz. (100mg)	0.005 oz. (150mg)	0.007 oz. (200mg)	0.009 oz. (250mg)	0.011 oz. (300mg)	0.012 oz. (350mg)	0.014 oz. (400mg)	0.016 oz. (450mg)	0.018 oz. (500mg)
0.019 oz. (550mg)	0.021 oz. (600mg)	0.023 oz. (650mg)	0.025 oz. (700mg)	0.027 oz. (750mg)	0.028 oz. (800mg)	0.03 oz. (850mg)	0.032 oz. (900mg)	0.034 oz. (950mg)
0.035 oz. (1g)	0.039 oz. (1.1g)	0.042 oz. (1.2g)	0.046 oz. (1.3g)	0.049 oz. (1.4g)	0.053 oz. (1.5g)	0.056 oz. (1.6g)	0.06 oz. (1.7g)	0.063 oz. (1.8g)
0.067 oz. (1.9g)	0.07 oz. (2g)	0.106 oz. (3g)	0.113 oz. (3.2g)	0.12 oz. (3.4g)	0.127 oz. (3.6g)	0.134 oz. (3.8g)	0.141 oz. (4g)	0.148 oz. (4.2g)
0.155 oz. (4.4g)	0.162 oz. (4.6g)	0.169 oz. (4.8g)	0.176 oz. (5g)	0.194 oz. (5.5g)	0.212 oz. (6g)	0.229 oz. (6.5g)	0.247 oz. (7g)	0.265 oz. (7.5g)
0.282 oz. (8g)	0.3 oz. (8.5g)	0.317 oz. (9g)	0.335 oz. (9.5g)	0.353 oz. (10g)	0.388 oz. (11g)	0.423 oz. (12g)	0.459 oz. (13g)	0.494 oz. (14g)
0.529 oz. (15g)	0.564 oz. (16g)	0.6 oz. (17g)	0.635 oz. (18g)	0.67 oz. (19g)	0.705 oz. (20g)	0.882 oz. (25g)	1.06 oz. (30g)	1.23 oz. (35g)
1.41 oz. (40g)	1.59 oz. (45g)	1.76 oz. (50g)	2.12 oz. (60g)	2.47 oz. (70g)	2.82 oz. (80g)	3.17 oz. (90g)	3.53 oz. (100g)	4.59 oz. (130g)
5.29 oz. (150g)	7.05 oz. (200g)	8.82 oz. (250g)						

**Batch No. / Lot Code:**

[Patent Pending]

**[A] [Contains] [a] [Patented Technology]**

*Not for sale or use after [DATE]*

<b>FIRST AID</b>	
<b>If inhaled:</b>	<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 mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a 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 by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p><b>Hotline Number:</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week for emergency medical treatment information. You may also contact 1-800-858-7378 (National Pesticide Information Center) for emergency medical treatment information between 8:00 am to 12:00 pm Pacific Standard Time, Monday - Friday.</p>	

**CAUTION[/PRECAUCIÓN]  
HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**PRECAUTIONARY STATEMENTS**

CAUTION: Harmful if inhaled or swallowed. Avoid breathing vapor. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse. This product can be irritating if inhaled or if it comes in contact with the eyes. If Hazel 312™ sachet contents comes in contact with the eye, flush with water for 15 minutes. Avoid inhaling Hazel 312™ powder.

**PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators of this product must wear:**

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Nitrile or butyl rubber gloves.
- Protective eyewear such as goggles
- Applicators and handlers must 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 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 the 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 and Tribe, consult the State/Tribal agency responsible for pesticide regulation. All applicable directions, precautionary statements, 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 also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. It also contains requirements for training, decontamination, notification and emergency assistance. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators of this product must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Nitrile or butyl rubber gloves
- Protective eyewear such as goggles
- Applicators and handlers must 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.

## PRODUCT INFORMATION

Hazel 312<sup>TM</sup> is a [novel] post-harvest tool for counteracting [many] undesirable effects of ethylene by counteracting premature [early] color break on [harvested] [post-harvest] fruit and vegetables. By counteracting ethylene, Hazel 312<sup>TM</sup> provides benefits to many fruit and vegetables during storage and transport including:

- [Slowing aging]
- [Delaying ripening and senescence]
- [Extending shelf-life]
- [Maintaining firmness]
- [Longer post-harvest storage capability]
- [Leaves no detectible residues]
- [Maintaining titratable acidity]
- [Reducing internal ethylene production]
- [Protection from external sources of ethylene [(such as vehicle exhaust)]]
- [Reducing fruit respiration]

[Hazel 312<sup>TM</sup>] [sachets] contain powder that [is specially formulated to delay] [delays the ripening of fruits and vegetables]. [[Hazel 312<sup>TM</sup>] works by [slowly] [control] releasing [1-methylcyclopropene] [1-MCP]]. Once the [sachets are][sachet is] removed from the [original] [foil] [outer] [packaging] [pouch], Hazel 312<sup>TM</sup> begins [working] [releasing 1-MCP] immediately. Apply to fruits and vegetables post-harvest - prior to storage, prior to shipment, and/or prior to sale.

Hazel 312<sup>TM</sup> is effective under both cool (below 55°F, 13°C) and warm (above 55°F, 13°C) temperature conditions. Fruits and vegetables must be exposed to Hazel 312<sup>TM</sup> for at least eight (8) hours, the minimum amount of exposure as the industry standard, to achieve the full benefits of the product. Apply to [produce] [fruit] immediately after the [original] [foil] [outer] [packaging] [pouch] seal is broken. [Fruits and vegetables must be exposed to Hazel 312<sup>TM</sup> in enclosed areas, such as storage rooms, greenhouses, coolers, shipping containers, enclosed truck trailers, enclosed [produce] [fruit] packaging or ambient temperature, refrigerated, or controlled atmosphere food storage facilities. **DO NOT USE THIS PRODUCT OUTDOORS.** All doors to enclosed treatment area must be sealed.

### GENERAL INSTRUCTIONS

**Store Hazel 312<sup>TM</sup> in its [original [foil] [outer] sealed [packaging] [pouch]. If storing this product for less than 1 month, store at 32 °F (0 °C) or if storing this product up to 6 months, it must be stored at -4°F (-20 °C) or colder until use. When ready to use, break the [foil] seal [of the [original] outer [packaging] [pouch]] and remove the Hazel 312<sup>TM</sup> sachets as instructed below.**

**Keep the powder inside the sachet at all times.**

When ready to use Hazel 312<sup>TM</sup>, open the [original] [foil] [outer] [packaging] [pouch] that contains the Hazel 312<sup>TM</sup> sachets. After the Hazel 312<sup>TM</sup> sachets are removed from the [original] [foil] [outer] [packaging] [pouch], Hazel 312<sup>TM</sup> begins working immediately. **Do not remove the powder from the sachet.** Apply Hazel 312<sup>TM</sup> immediately after the original [foil] [outer] [packaging] [pouch] seal is broken. **[Use all sachets in the original [foil] [outer] sealed [packaging] [pouch] in accordance with the usage application chart below.] [Do not store Hazel 312<sup>TM</sup> sachets for later use after they have been removed from their original [foil] [outer] [packaging] [pouch] as Hazel 312<sup>TM</sup> is designed to work immediately after removal from the [foil] [outer] [packaging] [pouch].] Application Instructions [for Package, Box, Pallet Treatment, Storage Rooms, or Shipping Containers]**

Hazel 312<sup>TM</sup> is ready to apply after removal from the [original] [foil] [outer] [packaging] [pouch]. **Do not remove Hazel 312<sup>TM</sup> powder from the sachet.** [To apply Hazel 312<sup>TM</sup> as a [produce] [fruit] package or box treatment place Hazel 312<sup>TM</sup> sachets in the container with the [produce] [fruit]. If possible, close the [produce] [fruit] package.] [To apply Hazel 312<sup>TM</sup> as a pallet treatment, place the Hazel 312<sup>TM</sup> sachet between pallet boxes containing [produce]

[fruit]. For maximum effectiveness, apply Hazel 312<sup>TM</sup> to [produce] [fruit] pallets immediately prior to shrink-wrapping.] [To apply Hazel 312<sup>TM</sup> to a storage space (chiller room, shipping container, or commercial truck containing [produce] [fruit]), follow the application chart below to determine the number of Hazel 312<sup>TM</sup> sachets needed for treatment. Close doors to storage spaces while Hazel 312<sup>TM</sup> is in the storage space and place Hazel 312<sup>TM</sup> throughout the room for maximum application coverage and benefit.] Follow the application chart below to determine the number of Hazel 312<sup>TM</sup> sachets needed for treatment. **[Use all sachets in the original [foil] [outer] sealed [packaging] [pouch].]**

**[Do not store Hazel 312<sup>TM</sup> sachets for later use after they have been removed from their original [foil] [outer] [packaging] [pouch] as Hazel 312<sup>TM</sup> is designed to work immediately after removal from the [foil] [outer] [packaging] [pouch].]**

**Minimum and Maximum Hazel 312<sup>TM</sup> Application Rates Based on [Produce] [Fruit] Weight\***

Container	[Produce] [Fruit] Weight	Hazel 312 <sup>TM</sup> Minimum Recommended Rate	Hazel 312 <sup>TM</sup> Maximum Allowed Rate
Package	3.3 lbs (< 1.5 kg)	0.0035 oz (100 mg)	0.021 oz (600 mg)
Box	22 lbs (<10 kg)	0.0088 oz (250 mg)	0.0528 oz (1.5g)
Box	44 lbs (< 20 kg)	0.0175 oz (500 mg)	0.105 oz (3g)
Large Box	110 lbs (< 50 kg)	0.035 oz (1g)	0.21 oz (6g)
Large Box	330 lbs (< 150 kg)	0.088 oz (2.5g)	0.528 oz (15g)
Bin	660 lbs (< 300 kg)	0.175 oz (5g)	1.05 oz (30g)
Pallet	1,980 lbs (< 900 kg)	0.63 oz (18g)	3.78 oz (108g)
Truck	26,400 lbs (< 12,000 kg)	4.55 oz (130g)	27.3 oz (780g)
Shipping Container	48,400 lbs (< 22,000 kg)	8.75 oz (250g)	52.5 oz (1.5kg)

Example: For a bin weighing 660 lbs, place one (1) 0.175 oz (5g) Hazel 312<sup>TM</sup> sachet in the container to obtain the minimum recommended rate of 0.175 oz (5g). A maximum number of six (6) 0.175 oz (5g) Hazel 312<sup>TM</sup> sachets may be added to obtain the maximum recommended rate of 1.05 oz (30g). Combinations of various sachet sizes can be used to obtain the recommended minimum and maximum application rates for each container as indicated in the table above.

**\*Note:** Do not exceed the maximum treatment for any one application. [Immature or mature green [produce] [fruit], or [produce] [fruit] otherwise at an immature stage, may exhibit heightened sensitivity to this product resulting in extended ripening delay. The user should test this product on a case of the fruit, vegetable, or herb to be treated at the ripeness level intended prior to large-scale application to directly observe the ripening timeline and ensure that the timing of Hazel 312<sup>TM</sup> application matches the user’s [supply chain] needs.]

After application, fruit and vegetables not for immediate distribution should be stored, according to good standard commercial practices, in either refrigerated air or controlled atmosphere. Do not use this product on fruit or vegetables previously treated with Ethephon. [Best results from Hazel 312<sup>TM</sup> are obtained with fruit and vegetables at the optimum maturity level for long-term storage.] Storage in controlled atmosphere is required for [produce] [fruit] that is to be held longer than 6 months.

Maintaining the cold chain (keeping the fruit and vegetables cool at all times) and strict adherence to sanitary practices remain essential in maintaining safe and high-quality fruit and vegetables.



#### STORAGE AND DISPOSAL

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

##### STORAGE:

Individual packet(s): Hazel 312 must be kept cold and in its original sealed packaging prior to application. Store in refrigerator or freezer in original [foil] [outer] sealed [packaging] [pouch]. **If storing this product for less than 1 month, store at 32 °F (0 °C) or if storing this product up to 6 months, it must be stored at -4 °F (-20 °C) or colder to remain effective or to remain fully effective.** [Use all sachets in the original [foil] [outer] sealed [packaging] [pouch] in accordance with the usage application chart above.] [Do not store Hazel 312<sup>TM</sup> sachets for later use after they have been removed from their original [foil] [outer] [packaging] [pouch] as Hazel 312<sup>TM</sup> is designed to work immediately after removal from the original [foil] [outer] [packaging] [pouch].]

Container of individual packets(s): Hazel 312 must be kept cold and in its original sealed packaging prior to application. [If storing Hazel 312 for < 1 month, Hazel 312 may be stored at 32 °F (0 °C).] If storing up to 6 months, Hazel 312 must be stored at -4 °F (-20 °C) or colder.

**DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Discard Hazel 312<sup>TM</sup> sachets as waste. Do not remove Hazel 312<sup>TM</sup> powder from the sachet.

**CONTAINER/PACKAGING HANDLING:** Nonrefillable packaging. Do not reuse or refill the original [foil] [outer] [packaging] [pouch].

#### WARRANTY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product.

HAZEL TECHNOLOGIES, INC. warrants that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when stored and used in accordance with label directions. HAZEL TECHNOLOGIES, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, all of which are beyond the control of HAZEL TECHNOLOGIES, INC. To the extent permitted by applicable law, Buyer and User agree to hold HAZEL TECHNOLOGIES, INC. harmless from any claims relating to such factors. Buyer and User agree that HAZEL TECHNOLOGIES, INC. is not responsible for any crops or [produce] [fruit] that fail to ripen due to misuse of this product. Handling, storage, and use of the product by Buyer and User are beyond the control of HAZEL TECHNOLOGIES, INC. and Seller. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of HAZEL TECHNOLOGIES, INC. and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, in no event shall HAZEL TECHNOLOGIES, INC be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF HAZEL TECHNOLOGIES, INC., FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF HAZEL TECHNOLOGIES, INC. THE REPLACEMENT OF THE PRODUCT.

# Optional Label Claims

## General Claims

- Convenient formulation and delivery system.
- Protects [produce] [fruit] during storage and shipping.
- Protects [produce] [fruit] shelf life.
- A post-harvest technology for improving the shelf-life of certain fruits and vegetables.
- A post-harvest technology for inhibiting the negative effects of ethylene in certain fruits and vegetables.
- No water activation necessary.
- Treats a wide range of [produce] [fruit] [fruits and vegetables].
- Keeps fruits and vegetables fresh longer.
- Recyclable and biodegradable.
- Delays ripening.
- Delays senescence.
- Delays senescence in certain [produce] [fruit].
- Slows [produce] [fruit] respiration.
- Helps regulate post-harvest changes in certain [produce] [fruit].
- Inhibits ethylene action.
- Extends [produce] [fruit] shelf-life.
- 1-MCP reduces respiration rate and tightly bind to the ethylene receptor of treated [produce] [fruit] thereby blocking the effects of ethylene.
- Extends the shelf life of ornamental plants.
- Helps protect agricultural products and [produce] [fruit] from the effects of ethylene.
- Can release 1-MCP for up to two weeks and works under a wide range of storage conditions.
- Odorless and tasteless.
- Provides slow release of 1-MCP.
- Does not [adversely][negatively] impact the flavor of fruits and vegetables.
- Can help protect against cold-chain breakage.
- Can be added directly into [produce] [fruit] packaging.
- Minimum landfill footprint.
- Can be used at any scale, from individual boxes to bulk shipments.
- Lasting protection for up to 4 weeks.
- Helps maintain firmness in fruits and vegetables.
- Helps maintain color in fruits and vegetables.
- Helps maintain total soluble solids (TSS) in fruits and vegetables.
- Helps maintain total titratable acidity (TTA) in fruits and vegetables.
- Helps preserve flavor in [produce] [fruit].
- Improves visual quality of post-harvest tomatoes.
- Helps prevents weight loss in cucumbers.
- Delays post-harvest decay in tomatoes.
- Helps prevent yellowing in [rocket][arugula][leaves][mustard greens][brassica greens].
- Slows respiration and helps protect weight of onions.
- Improves shelf life and reduces browning of post-harvest eggplant.
- Helps prevents internal browning of pineapples.
- Helps reduce chill injury in okra.
- Prevents yellowing in mizuna, tatsoi, and protects Chinese mustard, and choy sum from the effects of ethylene.
- Helps prevent rachis browning in grapes.
- Helps prevent scale senescence in pitaya.
- Helps prevent leaf senescence in mandarins.

- Inhibits de-greening and color change in citrus fruits, strawberry, pitaya, prickly pear, and olives.
- Helps protect peaches from discoloration and internal morphological changes.
- Helps prevent leaf abscission and root formation in eucalyptus.
- Helps preserve [produce] [fruit] quality.
- Improves the shelf life and quality of [produce] [fruit] during storage.

#### Apple

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial apple cultivars
- 1-MCP benefits for apples:
  - Effective with fresh-cut and whole fruits
  - Extends shelf-life of apples, even without refrigeration
  - Improves post-storage firmness
  - Reduces incidence of scald
  - Helps retain color
  - Reduces loss of chlorophyll
  - Retains [cell structure] [crunch]

#### Apricot

- Helps increase post-harvest firmness
- Helps reduce post-harvest softening
- Effective with pure apricot varieties as well as cross-varieties with peaches, plums, and nectarines

#### Asparagus

- Longer shelf life and higher post-storage quality
- 1-MCP benefits for asparagus:
  - Longer shelf-life and higher post-storage quality
  - Effective with fresh-cut and whole asparagus
  - Effective with green, white, and black asparagus
  - Extends shelf-life
  - Improves post-storage texture
  - Reduces incidence of scald
  - Helps retain color
  - Reduces weight loss
  - Reduces loss of chlorophyll
  - Reduces lignin content

#### Avocado

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial avocado cultivars
- 1-MCP benefits for avocados:
  - Effective with fresh-cut and whole fruits
  - Extends shelf-life of avocados, even without refrigeration
  - Extends shelf-life in a wide range of fruit dry matter content (low, medium, and high)
  - Extends shelf life of both Hass and non-Hass varieties
  - Reduces shrink levels
  - Helps maintain post-storage firmness
  - Reduces incidence of scald
  - Helps retain skin color
  - Reduces blackening and discoloration
  - Reduces lignin content

- Slows development of interior hollow cavities
- Improves resistance to rot and mold

#### Banana

- Longer shelf life and higher post-storage quality
- Improves resistance to rot and mold
- 1-MCP benefits for bananas:
  - Longer shelf-life and higher post-storage quality
  - Helps maintain yellow color and prevents overripening
  - Reduces browning, spotting, and discoloration fruits
  - Helps maintain firmness
  - Helps retain post-storage firmness
  - Improves resistance to rot and mold

#### Basil

- 1-MCP is effective with all forms of basil, including whole plants and detached leaves
- 1-MCP benefits for basil:
  - Longer shelf-life and higher post-storage quality
  - Reduce post-storage weight loss
  - Helps maintain green color
  - Helps delay the blackening of leaves
  - Improves post-storage aroma
  - Increases utilization
  - Reduces loss of chlorophyll

#### Broccoli

- 1-MCP is effective with most *Brassica* cultivars including broccoli and raab
- 1-MCP benefits for broccoli:
  - Longer shelf-life and higher post-storage quality
  - Protects against cold-chain breakage
  - Effective with fresh-cut and whole broccoli
  - Helps retain green color
  - Helps reduce weight loss
  - Reduces off-odor formation (for example, those caused by sulfur compounds)
  - Reduces loss of chlorophyll
  - Delays dehydration of crowns

#### Cherries

- 1-MCP is effective with most commercial cherry cultivars
- 1-MCP benefits for cherries:
  - Longer shelf-life and higher post-storage quality
  - Effective with fresh-cut and whole fruits
  - Helps maintain firmness
  - Increase pitting resistance
  - Reduce incidence of decay
  - Helps maintain flavor
  - Helps maintain TSS content
  - Helps maintain stem greenness
  - Delays stem dehydration
  - Effective with both red and blonde cherry varieties

#### Figs

- 1-MCP is effective with most commercial fig cultivars
- 1-MCP benefits for figs:
  - Longer shelf-life and higher post-storage quality
  - Effective with unpeeled and peeled fruits
  - Reduces browning and discoloration
  - Helps maintain post-storage flavor
  - Reduce incidence of decay such as anthracnose
  - Helps retain firmness
  - Helps reduce respiration

#### Grape:

- 1-MCP is effective with most major grape cultivars
- Increase post-harvest shelf life
- Reduce stem dehydration
- Reduce stem discoloration related to chlorophyll loss
- Reduce stem discoloration related to ambient ethylene in the supply chain
- Reduce shatter due to stem dehydration

#### Guava:

- Effective with most commercial guava cultivars
- Longer shelf-life and higher post-storage quality
- Helps reduce post-storage weight loss
- Helps retain color
- Helps reduce post-storage spotting and skin disorders related to ethylene damage
- Helps reduce post-storage shriveling

#### Kale

- 1-MCP is effective with most commercial kale cultivars
- 1-MCP benefits for kale:
  - Longer shelf-life and higher post-storage quality
  - Improve post-storage firmness
  - Helps reduce post-storage weight loss
  - Helps retain color
  - Reduces loss of chlorophyll

#### Kiwifruit

- 1-MCP is effective with most commercial kiwifruit cultivars including green-, gold-, and red-colored varieties
- 1-MCP benefits for kiwifruit:
  - Longer shelf-life and higher post-storage quality
  - Effective with fresh-cut and whole fruits
  - Increase post-storage firmness
  - Reduce weight loss

#### Lettuce

- [Helps prevent] [browning in], [accumulation of phenolic compounds in], [and] [slows metabolism of] iceberg lettuce
- 1-MCP is effective with most commercial lettuce cultivars
- 1-MCP benefits for lettuce:
  - Longer shelf-life and higher post-storage quality
  - Effective with fresh-cut and whole lettuce
  - Helps increase post-storage flavor

- Helps reduce post-storage browning
- Helps reduce post-storage weight loss
- Helps reduce vascular browning
- Helps reduce dehydration

#### Lime:

- Helps retain green color of the lime peel
- Helps retain chlorophyll in limes
- Effective with most commercial lime cultivars

#### Lychee

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial lychee cultivars
- 1-MCP benefits for lychee:
  - Helps prevent browning
  - Helps improve post-storage firmness
  - Helps improve post-storage flavor

#### Mangos

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial mango cultivars
- 1-MCP benefits for mangoes:
  - Effective with fresh-cut and whole fruits
  - Helps improve post-harvest firmness
  - Helps improve post-storage firmness
  - Helps improve post-ethylene conditioning firmness
  - Helps improve weight loss
  - Helps improve post-storage flavor and aroma
  - Helps protect against damage due to hot water treatment

#### Melons (Honeydew, Cantaloupe, Yellow Melon, Watermelon, Pumpkin)

- Longer shelf life and higher post-storage quality
- Protects against cold-chain breakage
- 1-MCP works for fresh cut melons as well as melons in all stages of ripeness
- 1-MCP benefits for melons:
  - Helps improve post-storage firmness
  - Helps reduce weight loss
  - Helps improve post-storage flavor and aroma
  - Helps reduce spotting and other skin defects caused by ethylene damage and senescence
  - Helps increase resistance to decay

#### Mushrooms

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial mushrooms, including button, cremini, maitake, shitake, oyster, and straw mushrooms
- Helps reduce browning
- Helps reduce incidence of decay

#### Nectarine

- Effective with most commercial nectarine cultivars
- Helps maintain post-storage firmness

#### Onions

- 1-MCP is effective with most commercial onion cultivars
- 1-MCP benefits for onions:
  - Helps reduce weight loss
  - Helps maintain post-storage firmness
  - Helps maintain post-storage flavor and aroma

#### Papaya

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial papaya cultivars
- 1-MCP benefits for papayas:
  - Effective with both fresh-cut and whole fruit
  - Helps retain post-storage firmness
  - Helps maintain color
  - Helps reduce post-storage weight loss

#### Peach

- Longer shelf life and higher post-storage quality
- 1-MCP is effective with most commercial peach cultivars
- 1-MCP benefits for peaches:
  - Effective with both fresh-cut and whole fruit
  - Helps retain post-storage firmness
  - Helps reduce incidence of rot
  - Helps maintain post-storage flavor

#### Pear:

- Effective with most commercial pear cultivars
- Helps reduce post-storage softening
- Helps reduce post-storage texture damage related to ethylene (mealiness)
- Helps reduce post-harvest scuffing

#### Peppers

- 1-MCP is effective with most commercial pepper cultivars
- 1-MCP benefits for pepper:
  - Longer shelf life and higher post-storage quality
  - Helps reduce weight loss
  - Helps maintain post-storage firmness
  - Reduce rate of decay
  - Helps maintain post-storage flavor
  - Helps maintains post-storage color
  - Reduces loss of chlorophyll
  - Helps retain stem color
  - Helps reduce stem dehydration

#### Persimmons

- 1-MCP is effective with most commercial persimmon cultivars
- 1-MCP benefits for persimmons:
  - Longer shelf life and higher post-storage quality
  - Effective with fresh-cut and whole fruits
  - Helps maintain post-storage firmness
  - Helps retain color

- Helps maintain post-storage flavor
- Helps maintains post-storage texture

#### Plums

- Longer shelf life and higher post-storage quality
- Protects against cold-chain breakage
- 1-MCP is effective with most commercial plum cultivars, including plum hybrids
- 1-MCP benefits for plums:
  - Helps retain color and firmness
  - Helps maintain post-storage flavor
  - Helps reduce exterior shriveling related to senescence and ethylene exposure
  - Helps increase storage time length
  - Helps prevent interior softening

#### Tomato

- Longer shelf life and higher post-storage quality
- Protects against cold-chain breakage
  - Helps maintain post-storage firmness
  - Helps reduce weight loss
  - Helps reduce occurrence of disease
  - Helps retain color in heirloom tomato varieties

#### Sapodilla

- Longer shelf life and higher post-storage quality
- 1-MCP benefits for sapodilla:
  - Helps maintain post-storage firmness
  - Helps post-storage color retention
  - Reduces loss of chlorophyll

Hazel 312<sup>[TM]</sup> extends the shelf-life of agave, ambarella, apples, apricots, araza, artichoke, arugula, asparagus, atemoya, avocados, babaco, bacuri, bananas, basil, bell pepper, bitter melon, blackapple, blackberry, blueberry, bok choy, brassicas, bread fruit, broccoli, brussel sprout, cacao pod, calabash tree, canistel, carrots, cauliflower, cherimoya, cherries, chickpeas, chinese eggplant, chives, choy sum, cilantro, coffee beans, coffee cherries, collard greens, cucumbers, cucurbits, dandelion greens, dill, dragon fruit, drupe fruit, durian, eggplant, endive, figs, fresh herbs, frisee, gai lan, garbanzo beans, golden berry, granadilla, grape, green beans, guanabana, guava, herbs, horned melon, jackfruits, kale, kiwifruit, kumquat, leafy greens, leeks, lettuce, longan, mamoncillo, mandarin orange, mangoes, mangosteens, melons, mint, mizuna, mushroom, mustard green, nectarines, okra, onions, oregano, papayas, parsley, passion fruit, peaches, pears, persimmons, pineapples, plantains, plums, pluot, pome fruit, prickly pear, purslane, rabe, raddichio, rambutan, rape, rapini, raspberry, rocket, rosemary, sage, sapodilla, sapote, sorrel, soursop, spanish lime, spinach, squash, star fruit, stone fruit, strawberry, sweet potato, synsepalum dulcificum [miracle berry], tatsoi, thai eggplant, thyme, tomatoes, turnip greens, watercress, watermelon, and zucchini.

#### Alternative Brand Names

Hazel 312-1  
 Hazel 312-2  
 Hazel 312-3  
 Hazel 312-4  
 Hazel 312-5  
 Hazel 312-6  
 Hazel 312-7  
 Hazel 312-8  
 Hazel 312-9



Hazel 312-10  
Hazel 312-11  
Hazel 312-12  
Hazel 312-13  
Hazel 312-14  
Hazel 312-15

# Hazel 312<sup>TM</sup>

[A [novel] post-harvest tool for counteracting the undesirable effects of [both internal and external sources of] ethylene by counteracting premature [early] color break on [harvested] [post-harvest] [ornamentals] [and] [cut flowers.]

[For management of post-harvest freshness]

**Active Ingredients:**

1-Methylcyclopropene ..... 2.0%  
Other Ingredients ..... 98.0%  
**TOTAL:** ..... 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION[/PRECAUCIÓN]**

[Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)]

EPA Est. No.:

EPA Reg. No.: 92120-A

**Manufactured [by][for]:**

Hazel Technologies, Inc.  
3440 S. Dearborn St.  
Suite 112S  
Chicago, IL 60616

**Net Contents:**

**[Sachets] [per package][Unit Package Size][Sachet Count]:**

[One][1]	[One hundred and fifty][150]	[Two thousand][2000]
[Two][2]	[Two hundred][200]	[Two thousand five hundred][2500]
[Five][5]	[Two hundred and fifty][250]	[Three thousand][3000]
[Ten][10]	[Five hundred][500]	[Three thousand five hundred][3500]
[Twenty][20]	[Six hundred][600]	[Four thousand][4000]
[Twenty five][25]	[Seven hundred and fifty][750]	[Four thousand five hundred][4500]
[Fifty][50]	[Eight hundred][800]	[Five thousand][5000]
[Seventy five][75]	[One thousand][1000]	
[One hundred][100]	[One thousand five hundred][1500]	

**[Hazel 312<sup>TM</sup> Sachet Size][Sachet Size][One sachet contains]:**

0.004 oz. (100mg)	0.005 oz. (150mg)	0.007 oz. (200mg)	0.009 oz. (250mg)	0.011 oz. (300mg)	0.012 oz. (350mg)	0.014 oz. (400mg)	0.016 oz. (450mg)	0.018 oz. (500mg)
0.019 oz. (550mg)	0.021 oz. (600mg)	0.023 oz. (650mg)	0.025 oz. (700mg)	0.027 oz. (750mg)	0.028 oz. (800mg)	0.03 oz. (850mg)	0.032 oz. (900mg)	0.034 oz. (950mg)
0.035 oz. (1g)	0.039 oz. (1.1g)	0.042 oz. (1.2g)	0.046 oz. (1.3g)	0.049 oz. (1.4g)	0.053 oz. (1.5g)	0.056 oz. (1.6g)	0.06 oz. (1.7g)	0.063 oz. (1.8g)
0.067 oz. (1.9g)	0.07 oz. (2g)	0.106 oz. (3g)	0.113 oz. (3.2g)	0.12 oz. (3.4g)	0.127 oz. (3.6g)	0.134 oz. (3.8g)	0.141 oz. (4g)	0.148 oz. (4.2g)
0.155 oz. (4.4g)	0.162 oz. (4.6g)	0.169 oz. (4.8g)	0.176 oz. (5g)	0.194 oz. (5.5g)	0.212 oz. (6g)	0.229 oz. (6.5g)	0.247 oz. (7g)	0.265 oz. (7.5g)
0.282 oz. (8g)	0.3 oz. (8.5g)	0.317 oz. (9g)	0.335 oz. (9.5g)	0.353 oz. (10g)	0.388 oz. (11g)	0.423 oz. (12g)	0.459 oz. (13g)	0.494 oz. (14g)
0.529 oz. (15g)	0.564 oz. (16g)	0.6 oz. (17g)	0.635 oz. (18g)	0.67 oz. (19g)	0.705 oz. (20g)	0.882 oz. (25g)	1.06 oz. (30g)	1.23 oz. (35g)
1.41 oz. (40g)	1.59 oz. (45g)	1.76 oz. (50g)	2.12 oz. (60g)	2.47 oz. (70g)	2.82 oz. (80g)	3.17 oz. (90g)	3.53 oz. (100g)	4.59 oz. (130g)
5.29 oz. (150g)	7.05 oz. (200g)	8.82 oz. (250g)						

**Batch No. / Lot Code:**

**[A] [Contains] [a] [Patented Technology]**

[Patent Pending]

*Not for sale or use after [DATE]*

<b>FIRST AID</b>	
<b>If inhaled:</b>	<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 mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a 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 by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<p><b>Hotline Number:</b> Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergencies, call the poison control center at 1-800-222-1222, 24 hours a day, 7 days a week for emergency medical treatment information. You may also contact 1-800-858-7378 (National Pesticide Information Center) for emergency medical treatment information between 8:00 am to 12:00 pm Pacific Standard Time, Monday - Friday.</p>	

**CAUTION[/PRECAUCIÓN]  
HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**PRECAUTIONARY STATEMENTS**

CAUTION: Harmful if inhaled or swallowed. Avoid breathing vapor. Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash before reuse. This product can be irritating if inhaled or if it comes in contact with the eyes. If Hazel 312<sup>TM</sup> sachet contents comes in contact with the eye, flush with water for 15 minutes. Avoid inhaling Hazel 312<sup>TM</sup> powder.

**PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators of this product must wear:**

- Long-sleeved shirt and long pants.
- Shoes plus socks.
- Nitrile or butyl rubber gloves.
- Protective eyewear such as goggles
- Applicators and handlers must 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 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 the 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 and Tribe, consult the State/Tribal agency responsible for pesticide regulation. All applicable directions, precautionary statements, 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 also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. It also contains requirements for training, decontamination, notification and emergency assistance. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators of this product must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Nitrile or butyl rubber gloves
- Protective eyewear such as goggles
- Applicators and handlers must 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.

## PRODUCT INFORMATION

Hazel 312<sup>[TM]</sup> is a [novel] post-harvest tool for counteracting [many] undesirable effects of ethylene by counteracting premature [early] color break on [harvested][post-harvest] ornamentals and cut flowers. By counteracting ethylene, Hazel 312<sup>[TM]</sup> provides benefits to many fresh cut flowers and potted flowers, bedding, nursery, and foliage plants during storage and transport including:

- [Prevent or reduce premature flower death]
- [Prevent leaf and/or flower senescence and abscission]
- [Prevent leaf yellowing]
- [Reduce internal ethylene production]
- [Protect from external sources of ethylene [(such as vehicle exhaust)]]
- [Reduce plant respiration]
- [Delay ripening and senescence]
- [Prolong natural beauty and number of blooms]
- [Help maintain color]
- [Prevent Wilting]

Hazel 312<sup>[TM]</sup> is specifically designed to be used by all levels of the floral and nursery industries, including growers, shippers, wholesalers, and retailers (such as florists). Hazel 312<sup>[TM]</sup> is very easy to use and can be used to treat the following flowers and plants:

[Achillea, Aconitum, Agapanthus, Alchemilla, Allium, Alstroemeria, Alyssum, Amaryllis, Anemone, Aphelandra, Aquilegia, Asclepias, Aster, Astrantia, Asparagus Fern, Azalea, Baby's Breath, Bedding plants, Begonia, Bells of Ireland, Bouvardia, Brassia (Schefflera), Brodiaea (Triteleia), Canistel, Calathea, Campanula, Carnation, Celosia, Centaurea, Chamaedorea, Chelone, Chrysanthemums, Coleus, Cordyline, Cymbidium, Crocosmia (Montbretia), Cut Flowers, Daffodils, Daisies, Daucus (Queen Annes Lace), Delphinium, Dendrobium, Dianthus, Dicentra, Dizygotheca, Doronicum, Echium, Eremurus, Eustoma (Lisianthus), Ficus, Foxglove, Freesia, Fuchsia, Geranium, Gladiolus, Godetia, Gypsophila, Hibiscus, Hyacinth, Hydrangea, Ilex (Holly), Impatiens, Ixia, Kalanchoe, Kniphofia, Larkspur, Lavatera, Lilac, Lily, Limonium, Lupine, Lysimachia, Marigold, Miniature Carnation, Monkshood, Orchids, Pelargonium, Peonies, Petunia, Philodendron, Phlox, Physostegia, Poinsettia, Ornamental Flowers, Radermachera Rose, Roses, Rudbeckia, Salvia, Saponaria, Scabiosa, Silene, Snapdragon, J Solidaster, Stock, Streptocarpus, Sunflower, Sweet William, Trachelium, Trollius, Tulips, Verbena, Veronica, Violets, Wax Flower, and Zygocactus.]

[Hazel 312<sup>[TM]</sup> [sachets] contain powder that [is specially formulated to delay] [delays the ripening of [delays the spoilage of fresh cut flowers and ornamental plants]. [[Hazel 312<sup>[TM]</sup> works by [slowly] [control] releasing [1-methylcyclopropene] [1-MCP]]. Once the [sachets are] [sachet is] removed from the [original] [foil] [outer] [packaging] [pouch], Hazel 312<sup>[TM]</sup> begins [working] [releasing 1-MCP] immediately. Apply to ornamentals and cut flowers post-harvest - prior to storage, prior to shipment, and/or prior to sale.

Hazel 312<sup>[TM]</sup> is effective under both cool (below 55°F, 13°C) and warm (above 55°F, 13°C) temperature conditions. Cut flowers and ornamental plants must be exposed to Hazel 312<sup>[TM]</sup> for at least eight (8) hours, the minimum amount of exposure as the industry standard, to achieve the full benefits of the product. Apply to [cut flowers] [and] [or] [ornamentals] immediately after the [original] [foil] [outer] [packaging] [pouch] seal is broken. [Cut flowers] [and] [or] [ornamentals] must be exposed to Hazel 312<sup>[TM]</sup> in enclosed areas, such as storage rooms, greenhouses, coolers, shipping containers, enclosed truck trailers, enclosed packaging or ambient temperature, refrigerated, or controlled atmosphere storage facilities. **DO NOT USE THIS PRODUCT OUTDOORS.** All doors to enclosed treatment area must be sealed.

**GENERAL INSTRUCTIONS**

Store Hazel 312<sup>TM</sup> in its [original [foil] [outer] sealed [packaging] [pouch]]. If storing this product for less than 1 month, store at 32 °F (0 °C) or if storing this product up to 6 months, it must be stored at -4 °F (-20 °C) or colder until use. When ready to use, break the [foil] seal [of the [original] outer [packaging] [pouch]] and remove the Hazel 312<sup>TM</sup> sachets as instructed below.

**Keep the powder inside the sachet at all times.**

When ready to use Hazel 312<sup>TM</sup>, open the [original] [foil] [outer] [packaging] [pouch] that contains the Hazel 312<sup>TM</sup> sachets. After the Hazel 312<sup>TM</sup> sachets are removed from the [original] [foil] [outer] [packaging] [pouch], Hazel 312<sup>TM</sup> begins working immediately. **Do not remove the powder from the sachet.** Apply Hazel 312<sup>TM</sup> immediately after the original [foil] [outer] [packaging] [pouch] seal is broken. **[Use all sachets in the original [foil] [outer] sealed [packaging] [pouch] in accordance with the usage application chart below.] [Do not store Hazel 312<sup>TM</sup> sachets for later use after they have been removed from their original [foil] [outer] [packaging] [pouch] as Hazel 312<sup>TM</sup> is designed to work immediately after removal from the [foil] [outer] [packaging] [pouch].]**

**Application Instructions for Package, Box, Pallet Treatment, Storage Rooms, or Shipping Containers**

Hazel 312<sup>TM</sup> is ready to apply after removal from the [original] [foil] [outer] [packaging] [pouch]. **Do not remove Hazel 312<sup>TM</sup> powder from the sachet.** [To apply Hazel 312<sup>TM</sup> as a [cut flowers] [and] [or] [ornamentals] package or box treatment place Hazel 312<sup>TM</sup> sachets in the container with the [cut flowers] [and] [ornamentals]. If possible, close the package.] [To apply Hazel 312<sup>TM</sup> as a pallet treatment, place the Hazel 312<sup>TM</sup> sachet between pallet boxes containing [cut flowers] [and] [or] [ornamentals]. For maximum effectiveness, apply Hazel 312<sup>TM</sup> to [cut flowers] [and] [or] [ornamentals] pallets immediately prior to shrink-wrapping.] [To apply Hazel 312<sup>TM</sup> to a storage space (chiller room, shipping container, or commercial truck), follow the application chart below to determine the number of Hazel 312<sup>TM</sup> sachets needed for treatment. Close doors to storage spaces while Hazel 312<sup>TM</sup> is in the storage space and place Hazel 312<sup>TM</sup> throughout the room for maximum application coverage and benefit. ] Follow the application chart below to determine the number of Hazel 312<sup>TM</sup> sachets needed for treatment. **[Use all sachets in the original [foil] [outer] sealed [packaging] [pouch].]**

**[Do not store Hazel 312<sup>TM</sup> sachets for later use after they have been removed from their original [foil] [outer] [packaging] [pouch] as Hazel 312<sup>TM</sup> is designed to work immediately after removal from the [foil] [outer] [packaging] [pouch].]**

**Minimum and Maximum Hazel 312<sup>TM</sup> Application Rates Based on [Cut Flowers] [and] [or] [Ornamentals] Weight\***

Container	[Produce] [Fruit] Weight	Hazel 312 <sup>TM</sup> Minimum Recommended Rate	Hazel 312 <sup>TM</sup> Maximum Allowed Rate
Package	3.3 lbs (< 1.5 kg)	0.0035 oz (100 mg)	0.021 oz (600 mg)
Box	22 lbs (<10 kg)	0.0088 oz (250 mg)	0.0528 oz (1.5g)
Box	44 lbs (< 20 kg)	0.0175 oz (500 mg)	0.105 oz (3g)
Large Box	110 lbs (< 50 kg)	0.035 oz (1g)	0.21 oz (6g)
Large Box	330 lbs (< 150 kg)	0.088 oz (2.5g)	0.528 oz (15g)
Bin	660 lbs (< 300 kg)	0.175 oz (5g)	1.05 oz (30g)
Pallet	1,980 lbs (< 900 kg)	0.63 oz (18g)	3.78 oz (108g)
Truck	26,400 lbs (< 12,000 kg)	4.55 oz (130g)	27.3 oz (780g)
Shipping Container	48,400 lbs (< 22,000 kg)	8.75 oz (250g)	52.5 oz (1.5kg)

Example: For a bin weighing 660 lbs, place one (1) 0.175 oz (5g) Hazel 312<sup>TM</sup> sachet in the container to obtain the minimum recommended rate of 0.175 oz (5g). A maximum number of six (6) 0.175 oz (5g) Hazel 312<sup>TM</sup> sachets may

be added to obtain the maximum recommended rate of 1.05 oz (30g). Combinations of various sachet sizes can be used to obtain the recommended minimum and maximum application rates for each container as indicated in the table above.

**\*Note:** Do not exceed the maximum treatment for any one application. The user should test this product on the [cut flowers] [and] [or] [ornamentals] to be treated prior to large-scale application to directly observe and ensure that the timing of Hazel 312<sup>TM</sup> application matches the user's [supply chain] needs.]

After application, [ornamentals] [and] [cut flowers] not for immediate distribution should be stored, according to good standard commercial practices, in either refrigerated air or controlled atmosphere. Do not use this product on [ornamentals] [and] [cut flowers] previously treated with Ethephon. [Best results from Hazel 312<sup>TM</sup> are obtained with [ornamentals] [and] [cut flowers] at the optimum maturity level for long term storage.] Prolonged or repeated treatment may be beneficial to the [cut flowers] [and] [or] [ornamentals]. Storage in controlled atmosphere is required for [cut flowers] [and] [or] [ornamentals] that is to be held longer than 6 months.

Maintaining the cold chain (keeping the [ornamentals] [and] [or] [cut flowers] cool at all times) and strict adherence to sanitary practices remain essential in maintaining safe and high-quality [ornamentals] [and] [or] [cut flowers].

#### STORAGE AND DISPOSAL

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

##### STORAGE:

Individual packet(s): Hazel 312 must be kept cold and in its original sealed packaging prior to application. Store in original [foil] [outer] sealed [packaging] [pouch]. **If storing this product for less than 1 month, store at 32 °F (0 °C) or if storing this product up to 6 months, it must be stored at -4 °F (-20 °C) or colder to remain effective or to remain fully effective.** [Use all sachets in the original [foil] [outer] sealed [packaging] [pouch] in accordance with the usage application chart above.] [Do not store Hazel 312<sup>TM</sup> sachets for later use after they have been removed from their original [foil] [outer] [packaging] [pouch] as Hazel 312<sup>TM</sup> is designed to work immediately after removal from the original [foil] [outer] [packaging] [pouch].]

Container of individual packets(s): Hazel 312 must be kept cold and in its original sealed packaging prior to application. [If storing Hazel 312 for < 1 month, Hazel 312 may be stored at 32 °F (0 °C).] If storing up to 6 months, Hazel 312 must be stored at -4 °F (-20 °C) or colder.

**DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Discard Hazel 312<sup>TM</sup> sachets as waste. Do not remove Hazel 312<sup>TM</sup> powder from the sachet.

**CONTAINER/PACKAGING HANDLING:** Nonrefillable packaging. Do not reuse or refill the original [foil] [outer] [packaging] [pouch].

#### WARRANTY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product.

HAZEL TECHNOLOGIES, INC. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when stored and used in accordance with label directions. HAZEL TECHNOLOGIES, INC. MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OF MERCHANTABILITY, OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, all of which are beyond the control of HAZEL TECHNOLOGIES, INC. To the extent permitted by applicable law, Buyer and User agree to hold HAZEL TECHNOLOGIES, INC. harmless from any claims relating to such factors.

Buyer and User agree that HAZEL TECHNOLOGIES, INC. is not responsible for any crops or [produce] [fruit] that fail to ripen due to misuse of this product. Handling, storage, and use of the product by Buyer and User are beyond the control of HAZEL TECHNOLOGIES, INC. and Seller. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of HAZEL TECHNOLOGIES, INC., and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, in no event shall HAZEL TECHNOLOGIES, INC. be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF HAZEL TECHNOLOGIES, INC. FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF HAZEL TECHNOLOGIES, INC., THE REPLACEMENT OF THE PRODUCT.

## Optional Label Claims

### General Claims

- Convenient formulation and delivery system.
- Protects [cut flowers] [and] [or] [ornamentals] during storage and shipping.
- Protects [cut flowers] [and] [or] [ornamentals] shelf life.
- No water activation necessary.
- Recyclable and biodegradable.
- Inhibits ethylene action.
- 1-MCP reduces respiration rate and increase resistance to ethylene.
- Extends the shelf life of ornamental plants and cut flowers.
- Odorless and tasteless.
- Provides slow release of 1-MCP.
- Can help protect against cold-chain breakage.
- Can be used at any scale, from individual boxes to bulk shipments.
- Increases shelf life of cut flowers.
- Helps maintain firmness in flowers and plants.
- Helps maintain color in flowers and plants.
- Helps maintain total soluble solids (TSS) in flowers and plants.
- Prevents yellowing in garland chrysanthemum from the effects of ethylene.
- Helps prevent blossom abscission and enhances bloom stability in flowers.
- Helps prevent wilting during storage, shipping, and display.
- Helps maintain chlorophyll content during storage, shipping, and display.
- Helps reduce respiration rate during storage, shipping, and display.
- Helps reduce plant dehydration during storage, shipping and display.

### Alternative Brand Names

Hazel 312-1F  
Hazel 312-2F  
Hazel 312-3F  
Hazel 312-4F  
Hazel 312-5F  
Hazel 312-6F  
Hazel 312-7F  
Hazel 312-8F  
Hazel 312-9F  
Hazel 312-10F  
Hazel 312-11F  
Hazel 312-12F



Hazel 312-13F  
Hazel 312-14F  
Hazel 312-15F

**(Individual Unit)**

# Hazel 312<sup>[TM]</sup>

[by Hazel<sup>[®]</sup> [by Hazel Tech<sup>[®]</sup> [by Hazel Technologies]

[For management of post-harvest freshness]

**Active Ingredients:**

1-Methylcyclopropene.....	2.0%
Other Ingredients.....	98.0%
<b>TOTAL:</b> .....	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN  
CAUTION[/PRECAUCIÓN]**

[Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)]

See full label attached to the outer container for First Aid, Precautionary Statements, and Directions for Use, Storage and Disposal for this unit.

EPA Est. No.:

EPA Reg. No.: 92120-A

**Net contents:**

**Batch code:**

[A] [Contains] [a] [Patented Technology]  
[[PROUDLY] MADE IN THE USA]

*Not for sale or use after [DATE]*

[Patent Pending]