

71297-2

07/17/2002

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U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Biopesticides and Pollution Prevention Division (7511C)
 1200 Pennsylvania Avenue NW
 Washington, DC 20460

EPA Reg. Number

71297-2

Date of Issuance:

JUL 17 2002

Term of Issuance:

Unconditional

Name of Pesticide Product:

SmartFresh™ Technology

NOTICE OF PESTICIDE:

- Registration
- Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

AgroFresh a Rohm and Hass Company
100 Independence Mall West
Philadelphia, PA 19106-2399

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/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his 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 this 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 sec. 3(c)(5) subject to the comments listed below:

1. Make the following label changes:
 - a. Add the phrase, "EPA Registration No. 71297-2" to your label before you release the product for shipment
 - b. Add the appropriate Establishment Number to your label before you release the product for shipment
2. Submit five copies of the final printed labeling before you release this product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec.6(e). Your release for shipment of the product constitutes acceptance of these conditions.

Unconditional registration does not eliminate the need for continual reassessment of a pesticide. If EPA determines, at any time, that additional data are required to maintain in effect, an existing registration, the Agency will require submission of such data under Section 3(c)(2)(B) of FIFRA.

Signature of the Approving Official

Janet K. Anderson

JUL 17 2002

Master Label

SmartFresh™ Technology

A unique postharvest tool for counteracting many of the undesirable effects of both internal and external sources of ethylene on harvested fruit.

ACTIVE INGREDIENT:

1-Methylcyclopropene.....3.3%

OTHER INGREDIENTS.....96.7%

TOTAL.....100.0%

A: SUBLABEL – COMMERCIAL LABEL FOR THE TREATMENT OF APPLES, MELONS, TOMATOES, PEARS, AVOCADOES, MANGOES, PAPAYAS, KIWI FRUIT, PEACHES, NECTARINES , PLUMS, APRICOTS AND PERSIMMONS

B: SUBLABEL – COMMERCIAL LABEL FOR THE TREATMENT OF APPLES

EPA Reg. No. 71297-

Produced by: AgroFresh Inc.
A subsidiary of Rohm and Haas Company
Philadelphia, PA
Tel: 215-592-3000

ACCEPTED
JUL 17 2002
Under the Federal Insecticides, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 71297-2

SUBLABEL – COMMERCIAL LABEL FOR THE TREATMENT OF APPLES, MELONS, TOMATOES, PEARS, AVOCADOES, MANGOES, PAPAYAS, KIWIFRUIT, PEACHES, NECTARINES, PLUMS, APRICOTS, AND PERSIMMONS

AgroFresh Inc
A subsidiary of Rohm and Haas Company
Philadelphia, PA. 19106
Tel: (215) 592-3000

SmartFresh™ Technology

Active Ingredient: 1-Methylcyclopropene3.3%
Other Ingredients:.....96.7%
Total:..... 100.0%

EPA REGISTRATION NO. 71297-
EPA EST. NO. 707-PA-003

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 in its generating system unopened and unused within thirty days of purchase to the place of purchase.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician if irritation persists.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention.
IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
IF SWALLOWED: Dilute by drinking 1 or 2 glasses of water and call a physician.

Net Contents:

Generator:	System 18: 1.2 oz (34.0 grams)	System 5: 0.17 oz (4.9 grams)
	System 25: 1.7 oz (46.9 grams)	System 7: 0.24 oz (6.8 grams)
	System 34: 2.3 oz (64.7 grams)	System 10: 0.33 oz (9.4 grams)
	System 46: 3.2oz (89.3 grams)	System 14: 0.45 oz (12.9 grams)
	System 64: 4.3 oz (123.2 grams)	System 19: 0.63 oz (17.8 grams)
	System 82: 5.5 oz (155.3 grams)	System 26: 0.87 oz (24.6 grams)
	System 100: 6.6 oz (187.9 grams)	
	System 118: 7.8 oz (220.0 grams)	
	System 136: 8.6 oz (244.6 grams)	
	System 154: 9.8 oz (278.5 grams)	
	System 172: 10.9 oz (310.6 grams)	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes slight eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators of this product must wear:

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

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.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers 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 on this label 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 prior to venting the volatile active ingredient from the treatment room.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, prior to venting the volatile active ingredient from the treatment room is:

- Coveralls
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Respirator

CONDITIONS OF SALE AND WARRANTY

AgroFresh, Inc warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. AgroFresh Inc **MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of AgroFresh Inc. and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL AgroFresh OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

GENERAL INFORMATION

SmartFresh™ is a powder that, when mixed with water in a proprietary generating system, releases the volatile active ingredient 1-methylcyclopropene (1-MCP).

SmartFresh™ is a unique postharvest tool for counteracting many of the undesirable effects of both internal (produced within the fruit) and external sources of ethylene on harvested fruit. By counteracting ethylene, SmartFresh™ provides many benefits to the fruit during transport and storage including:

- . 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

SmartFresh™ can be used immediately after harvest, prior to storage, prior to shipment and/or just prior to sale. SmartFresh™ 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, products should be treated as soon as possible after harvest.

Harvested fruits must be exposed to the volatile active ingredient of SmartFresh™ in enclosed areas, such as storage rooms, greenhouses, coolers, shipping containers, enclosed truck trailers, or ambient temperature, refrigerated, or controlled atmosphere food storage facilities. This product is not intended for use outdoors or in other non-enclosed areas. These enclosed treatment areas should be gas tight as leakage will reduce SmartFresh™'s effectiveness.

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.

Fruit Storage Conditions

SmartFresh™ is compatible with and complementary to fruit stored under both controlled atmosphere and regular air fruit storage conditions. SmartFresh™ must be used in air tight treatment areas.

Timing Of Harvest And Application

SmartFresh™ should be added to the treatment area containing fruit immediately after harvest, upon entering storage or in transit. To realize maximum benefit for optimum quality, fruit should be pre-cooled promptly and SmartFresh™ should be applied in the treatment area as soon after harvest as possible and before the climacteric peak of respiration has occurred. Best results from SmartFresh™ are obtained with fruit at the optimum maturity level for long term storage. After application, fruit not for immediate sale must be stored, according to good standard commercial practices, in either refrigerated air or controlled atmosphere. Storage in controlled atmosphere is recommended for fruit that is to be held longer than 6 months.

It must be emphasized that maintaining the cold chain (keeping the fruit cool at all times) and strict adherence to phytosanitary practices remain essential in maintaining safe and high-quality fruit. For optimum control of superficial scald on pome fruits, SmartFresh™ must be applied within two weeks of harvest.

APPLICATION METHOD

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

SmartFresh™ is applied by the use of a proprietary generator system. See Table 1 and Table 2 to select the appropriate generator system for the fruit and the size of the treatment area. Fill the treatment area with fruit. Place the appropriate generator on a stable surface of the treatment area in a position that would be within the flow of air from the internal refrigeration system.

Remove the lid from the generator and the protective tape which covers the start button. Push the start button (which will illuminate red) to start the generator. With the generator running, add 2 gallons (8 liters) of water at a temperature between 20 degrees and 40 degrees Centigrade (68 to 104 degrees Fahrenheit) to the generator. Immediately leave the storage area and seal the door in order to contain the 1-MCP vapor and ensure the maximum efficacy of 1-MCP. The release of the 1-MCP to the area will start several minutes after the water is added to the generator.

After the area is sealed, post a sign on all of the entrances to the treatment area. The sign should read "CAUTION. Do not enter area. SmartFresh™ treatment in progress." The doors to the storage area should remain sealed for 24 hours to ensure effective SmartFresh™ treatment. Entrance to the room prior to 24 hours will invalidate the treatment. During the treatment, the internal refrigerated air circulation should be running to ensure good air circulation within the room. 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 SmartFresh™ 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 generator. The spent water contained in the generator can be disposed by pouring down a suitable drain. Treated fruit not intended for immediate sale should be stored according to good, standard commercial practices, in either refrigerated air or controlled atmosphere. Storage in controlled atmosphere conditions is recommended for fruit that is planned to be held longer than 6 months.

Restrictions

Restricted Entry Period (REI): 30 minutes after room has been vented

Maximum season use rate: One application at a maximum use rate of 1 ppm (volume/volume in air) as delivered by appropriate sized generator (see Table 1 and Table 2 for generator selection)

Do not smoke during the SmartFresh™ application.

For temperate treefruit (apples, pears, plums, apricots, peaches, nectarines and kiwifruit), apply SmartFresh™ within two weeks of harvest.

For tropical treefruits (avocadoes, mangoes, papayas, persimmons), tomatoes and melons, apply within three days of harvest

Do not treat fruit stressed from poor fertility, heat, drought or sunscald

Do not treat fruit that have had a pre-harvest application of ethephon

TABLE 1. Selection Of Generator For Treatment Of Apples, Melons, Tomatoes

Selection based on 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 , 5 feet long and 5 feet high, the treatment area volume equals 100 cubic feet.

Treatment Area Size (empty volume)	Generator Type	Total SmartFresh™ In Generator	
		Oz.	Grams
ft ³			
18,000 – 25,000	System 18	1.2	34.0
25,000 – 34,000	System 25	1.7	46.9
34,000 – 46,000	System 34	2.3	64.7
46,000 – 64,000	System 46	3.2	89.3
64,000 – 82,000	System 64	4.3	123.2
82,000 – 100,000	System 82	5.5	155.3
100,000 – 118,000	System 100	6.6	187.9
118,000 – 136,000	System 118	7.8	220.0
136,000 – 154,000	System 136	8.6	244.6
154,000 – 172,000	System 154	9.8	278.5
172,000 – 190,000	System 172	11.0	310.6

Note: Use multiple generators for treatment area sizes greater than those listed in the above table.

Table 2: Selection Of Generator For Treatment Of Pears, Avocados, Mangoes, Papayas, Kiwifruit, Peaches, Nectarines, Plums, Apricots and Persimmons

Selection based on 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, 5 feet long and 5 feet high, the treatment area volume equals 100 cubic feet.

Treatment Area Size (empty volume)	Generator Type	Total SmartFresh™ in Generator	
		Oz.	Grams
Ft ³			
5,000 – 7,000	System 5	0.17	4.9
7,000 – 10,000	System 7	0.24	6.8
10,000 – 14,000	System 10	0.33	9.4
14,000 – 19,000	System 14	0.45	12.9
19,000 – 26,000	System 19	0.63	17.8
26,000 – 36,000	System 26	0.87	24.6

Note: Use multiple generators for treatment area sizes greater than those listed in the above table.

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: Triple rinse the generator with water after use. Instructions for returning the used generators will be provided by AgroFresh Inc.

SmartFresh™ is a registered trademark of AgroFresh Inc./Rohm and Haas Company

AgroFresh Inc.
A Fully-Owned Subsidiary of Rohm and Haas Company
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SUBLABEL – COMMERCIAL LABEL FOR THE TREATMENT OF APPLES

AgroFresh Inc A subsidiary of Rohm and Haas Company Philadelphia, PA. 19106 Tel: (215) 592-3000	<h1>SmartFresh™ Technology</h1>
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Active Ingredient: 1-Methylcyclopropene3.3%
Other Ingredients:.....96.7%
Total:..... 100.0%

EPA REGISTRATION NO. 71297-
EPA EST. NO. 707-PA-003

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 in its generating system unopened and unused within thirty days of purchase to the place of purchase.

<p>KEEP OUT OF REACH OF CHILDREN</p> <p>CAUTION</p> <p>FIRST AID</p> <p>IF IN EYES: Flush with plenty of water for at least 15 minutes. Call a physician if irritation persists.</p> <p>IF ON SKIN: Wash with plenty of soap and water. Get medical attention.</p> <p>IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.</p> <p>IF SWALLOWED: Dilute by drinking 1 or 2 glasses of water and call a physician.</p>

Net Contents:

Generator:	System 18:	1.2 oz (34.0 grams)
	System 25:	1.7 oz (46.9 grams)
	System 34:	2.3 oz (64.7 grams)
	System 46:	3.2oz (89.3 grams)
	System 64:	4.3 oz (123.2 grams)
	System 82:	5.5 oz (155.3 grams)
	System 100:	6.6 oz (187.9 grams)
	System 118:	7.8 oz (220.0 grams)
	System 136:	8.6 oz (244.6 grams)
	System 154:	9.8 oz (278.5 grams)
	System 172:	10.9 oz (310.6 grams)

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes slight eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators of this product must wear:

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

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.

<p>AGRICULTURAL USE REQUIREMENTS</p> <p>Use this product only in accordance with its labeling and with the Workers 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 on this label 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.</p> <p>Do not enter or allow worker entry into treated areas prior to venting the volatile active ingredient from the treatment room.</p> <p>PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, prior to venting the volatile active ingredient from the treatment room is:</p> <ul style="list-style-type: none"> • Coveralls • Chemical-resistant gloves made of any waterproof material • Shoes plus socks • Respirator

CONDITIONS OF SALE AND WARRANTY

AgroFresh™, Inc warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. AgroFresh Inc **MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES EITHER OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE.** Handling, storage and use of the product by Buyer or User are beyond the control of AgroFresh Inc. and Seller. Risks such as crop injury, ineffectiveness or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by the Buyer or User. **IN NO CASE WILL AgroFresh OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.**

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- . Maintaining firmness
- . Maintaining titratable acidity
- . Preventing superficial scald and soft scald on pome fruit
- . Reducing internal ethylene production
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- . Reducing fruit respiration
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- . Reducing incidence of peel greasiness in apples
- . Reducing incidence of core flush and mealiness in pome fruit
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Harvested fruits must be exposed to the volatile active ingredient of SmartFresh™ in enclosed areas, such as storage rooms, greenhouses, coolers, shipping containers, enclosed truck trailers, or ambient temperature, refrigerated, or controlled atmosphere food storage facilities. This product is not intended for use outdoors or in other non-enclosed areas. These enclosed treatment areas should be gas tight as leakage will reduce SmartFresh™'s effectiveness.

Directions For Use

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It must be emphasized that maintaining the cold chain (keeping the fruit cool at all times) and strict adherence to phytosanitary practices remain essential in maintaining safe and high-quality fruit. For optimum control of superficial scald on pome fruits, SmartFresh™ must be applied within two weeks of harvest.

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Remove the lid from the generator and the protective tape which covers the start button. Push the start button (which will illuminate red) to start the generator. With the generator running, add 2 gallons (8 liters) of water at a temperature between 20 degrees and 40 degrees Centigrade (68 to 104 degrees Fahrenheit) to the generator. Immediately leave the storage area and seal the door in order to contain the 1-MCP vapor and ensure the maximum efficacy of 1-MCP. The release of the 1-MCP to the area will start several minutes after the water is added to the generator.

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Do not smoke during the SmartFresh™ application.

Apply SmartFresh™ within two weeks of harvest

Do not treat fruit stressed from poor fertility, heat, drought or sunscald

Do not treat fruit that have had a pre-harvest application of ethephon

TABLE 1. Selection Of Generator For Treatment Of Apples

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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: Triple rinse the generator with water after use. Instructions for returning the used generators will be provided by AgroFresh Inc.

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