

5481-427

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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

FEB - 9 2012

Joy Paff
Amvac Chemical Corporation
4695 MacArthur Court, Suite 1250
Newport Beach, CA 92660

SUBJECT: Notification Label Revision per PR Notice 2007-4
Fruitone N
EPA Reg. No.5481-427
Notification dated January 23, 2011
Decision # 460168

Dear Ms. Paff:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4. The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4.

The label submitted with this application has been stamped "Notification" and will be placed in our files. If you have any questions, please call Rose Kearns at 703-305-5611 or you may call me at 703-308-9443.

Sincerely,

A handwritten signature in black ink that reads "Tony Kish".

Tony Kish
Product Manger (22)
Fungicide Branch
Registration Division (7504P)

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1/30



January 23, 2012

Ms. Sherada Hobgood
Document Processing Desk
Office of Pesticide Programs (Notif)
U.S. Environmental Protection Agency
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202

**Subject: Notification of Minor Label Revision and Storage and Disposal Language Per
PR Notice 2007-4
Fruitone N (EPA Reg. No. 5481-427)**

Dear Sherada:

Please find enclosed the notification to revise labeling for the above listed product. We have updated the Storage and Disposal Statement to comply with the language outlined in the Agency's PR Notices.

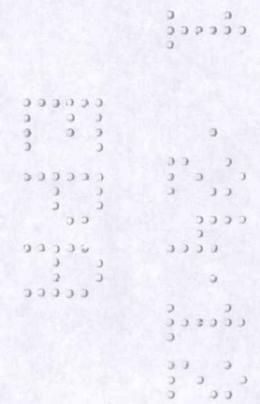
In support of this request, enclosed please find the following:

1. Application for Pesticide Registration (EPA Form 8570-1).
2. ~~Three~~ ^{one} copies of the label (Ref. No 427-20120123r9).
3. One highlighted copy of the label.

It is my understanding that this satisfies the requirements of the Agency's PR Notice and will require no further action. If you have any questions or require additional information, please do not hesitate to contact me at 949-221-6123 or email joyp@amvac-chemical.com. Thank you for your attention to this matter.

Best regards,

Joy Paff
Regulatory Specialist



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Fruitone® N

**FOR THINNING AND CONTROL OF PRE-HARVEST DROP OF APPLES AND PEARS
FOR PROMOTING RETURN BLOOM OF APPLES THE FOLLOWING SEASON**

ACTIVE INGREDIENT:

1-Naphthaleneacetic Acid, Sodium Salt* 3.5%

INERT INGREDIENTS:..... 96.5%

TOTAL: 100.0%

*Equivalent to 3.1% of 1-Naphthaleneacetic Acid.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If in eyes:	<ul style="list-style-type: none"> • 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. • Call a poison control center or doctor for treatment advice.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
EMERGENCY INFORMATION	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:	
Transportation: CHEMTREC.....	1-800-424-9300
Other: AMVAC.....	1-323-264-3910
NOTE TO PHYSICIAN	
No specific antidote is available. All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.	

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-427
EPA Est. No. 5481-CA-1

Net Weight:
As Marked on Container

NOTIFICATION

FEB - 9 2012



4100 E. Washington Blvd.

Los Angeles, CA 90023 U.S.A

1-323-264-3910 • www.amvac-chemical.com

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through the skin or eyes, swallowed or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

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

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions 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.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when weather conditions favor drift from treated areas. Do not use in a greenhouse.

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. Do not apply this product through any type of irrigation system.

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 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 during the restricted-entry interval (REI) of 48 hours.

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, is:

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

General Information

Fruitone N is an auxin plant hormone for use in fruit production. The response of fruit trees to an application may vary in different years. In reviewing the results, the grower needs to consider the variation in varieties, climatic factors, dosage, tree vigor, and fruit set before choosing the desired rate and timing for application. Application using sufficient water to ensure complete uniform spray coverage with your specific equipment is imperative. Application can be made in the range of 50 to 400 gallons of water per acre. The appropriate spray volume is determined by the type of equipment used, tree size and density of the foliage. Each grower should consider all variables in rate and application timing for each variety and orchard location when establishing the spray program.

Fruitone N thins the fruit of apples and pears during heavy bearing years resulting in increased fruit size and promotes adequate return bloom the following season. Furthermore, an additional non-fruit thinning application may provide return bloom next year on certain apple varieties.

Fruitone N also controls pre-harvest drop of apples and pears leading to a larger harvest and a reduction of losses from windfall and knockdown.

Fruitone N, when diluted with the recommended amount of water, is physically compatible with a wide range of commonly used spray products although the full range of compatibilities under local conditions are not known. In addition, since formulations may be changed and new ones introduced, it is recommended that users premix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures. Observe all cautions and limitations on labeling of all products used in any tank mix. It is recommended that you consult your local Extension Pomologist for recommendations or when tank mixing any product you have not previously used with Fruitone N. In addition, always test spray a small area prior to the general use of a tank mix that you have not previously used.

Note: All use of ppm refers to the active ingredient (a.i.) not the formulated product.

Table 1

Rate (ppm)	Spray Preparation Chart For Dilute Application							
	Gallons of Spray per Acre							
	100		150		300		400	
	oz	(lb.)	oz	(lb.)	oz	(lb.)	oz	(lb.)
3	1.2		1.8		3.6		4.8	(0.30)
5	2.1		3.0		6.0	(0.38)	8.0	(0.50)
7.5	3.0		4.5	(0.28)	9.0	(0.56)	12.0	(0.75)
10	4.0	(0.25)	6.0	(0.38)	12.0	(0.75)	16.0	(1.00)
15	6.0	(0.38)	9.0	(0.56)	18.0	(1.12)	24.0	(1.50)
20	8.0	(0.50)	12.0	(0.75)	24.0	(1.50)	32.0	(2.00)

CHEMICAL THINNING - APPLES

Because of the wide differences in varieties, climatic factors before and after application, tree vigor, and fruit set and size at time of application, the application rates can range from 3 to 20 ppm (see Tables 1 & 2) and application timing can range from full bloom to 30 days after full bloom. The higher concentrations should be limited to vigorous trees with high fruit set potential. Use the lower concentrations for weaker, less vigorous trees with less food reserves and lower fruit set potential.

IMPORTANT! Fruitone N should not be used on early season varieties (those that mature before McIntosh) such as Early Williams Red and Oldenberg as injury may occur. Amid-Thin® W is recommended for these early season varieties. In addition, application of Fruitone N to trees younger than five years of age should be made with caution as damage to the trees may occur.

Pygmy fruit formation may occur with high application rates > 15 ppm, high temperatures > 85°F, and/or late applications when fruit size > 15 mm. This is especially true on the Delicious varieties.

Thinning spray applications are most effective when the king apple fruitlets are 5 to 10 mm in diameter. During cool springs, delay application as necessary until the largest fruits are 7 to 10 mm in diameter and anticipated daytime temperatures are likely to rise above 60°F within the next five days. The preferred application temperature is between 70°F and 75°F. Applications are not recommended below 60°F or above 80°F. Over-thinning may occur at daytime temperature above 85°F. Satisfactory thinning can be obtained under the latter conditions with lower rates.

Early applications of Fruitone N one week after full bloom (petal fall) when fruit size is 3 to 7 mm fruit size and/or 2 to 3 weeks after full bloom (early fruit set) when fruit size is 8 to 10 mm fruit size are the preferred application timing(s). Direct most of the spray to the top two-thirds of the tree canopy.

Dilute Spray: Varieties differ in their response to Fruitone N application(s). Use the varieties in Table 3 as a guide to adjust your thinning rates for Fruitone N. **NOTE: THIS IS JUST A GUIDE!** Experience and observations on thinning your own orchard will help to refine the rates and timing for best results.

Concentrate Spray: Use Fruitone N at the rate of 0.25 lb (4 oz) to 0.50 lb (8 oz) per acre in sufficient water to ensure good coverage at petal fall to early fruit set. Uniform and even coverage is imperative for good results.

Table 2

Varieties	Thinning Rates ¹	Application Timing
Easy-to-thin: Braeburn, Cortland, Empire, Ginger Gold, Paulared, Idared, Jonathan, Northern Spy, McIntosh, Red Delicious, Winesap and others.	5 - 10 ppm	Petal Fall (3-7 mm fruit size) and/or early fruit set (8-10 mm fruit size) Use the lower concentrations for weaker trees, cooler weather, less food reserves and lower fruit set potential and slow drying conditions
Moderate-to-thin: Jerseymac, Rome, Jonamac, Spartan, Gala, Mutsu and others.	10 - 15 ppm	
Difficult-to-thin: Fuji, Golden Delicious, Lodi, Wealthy Spur Delicious, Macoun, York, Rhode Island Greening, York Imperial and others.	15 - 20 ppm	

¹ If Fruitone N is used with a non-ionic surfactant or in a tank mix with another apple thinning product, the application rate of Fruitone N should be reduced to 1/2 to 2/3 of the normal rate. If a surfactant is used, always follow the manufacturer's recommendations but never use more than 1 pint per 100 gallons of spray mix.

Tank Mix Combinations: Tank mix combinations of Fruitone N (5 to 7.5 ppm) and Carbaryl (e.g. Sevin® 4F and Sevin® XLR Plus) have successfully thinned several early maturing, heavy-setting varieties as well as hard-to-thin apple varieties. A petal fall application of Fruitone N followed 7 to 10 days later by an application of Fruitone N (5 to 7.5 ppm) + Carbaryl (0.5 lbs. AI per 100 gallons) has improved thinning of hard-to-thin apple varieties. Fruitone N should not be mixed with any product containing a label restriction against such mixing. Always apply in accordance with the limitations and precautions of the most restrictive label.

TO PROMOTE RETURN BLOOM THE FOLLOWING SEASON - APPLES

Fruitone N may promote return bloom in off years to young trees that are slow to bear or mature trees that produce only a limited number of blossoms in "off years". This application acts as a return bloom enhancer to certain apple varieties such as Fuji, Jonagold, Mutsu, Braeburn and Golden Delicious. Apply a spray concentration of 3 to 5 ppm (see Table 1) five to six weeks after full bloom in sufficient water to ensure good coverage. If desired return bloom is not achieved following first year's application, an additional 1 to 2 applications at 7-10 days interval may be required for certain varieties.

CHEMICAL THINNING - PEARS

Bartlett, Bosc and Comice

Apply Fruitone N at a spray concentration of between 10 to 15 ppm for dilute spray in up to 400 gallons of water per acre. Use at a rate of 0.75 lb to 1.25 lbs of product per acre for a concentrate spray. Apply Fruitone N once per year 15 to 28 days after full bloom with a surfactant (wetting agent).

During cool seasons, when the bloom period has been prolonged, delay application at least 21 days after bloom or when fruit is 10 to 15 mm in diameter. Apply in sufficient water to ensure good coverage.

Fruitone N may not adequately thin Bartlett during some seasons. The preferred application temperature is between 70°F and 75°F. Application is not recommended below 60°F or above 80°F.

CONTROL OF PRE-HARVEST DROP - APPLES

Apply to apples 7 to 14 days prior to harvest. Do not make more than two applications and do not delay harvest beyond optimum maturity. Do not spray within two days of harvest. Fruitone N becomes effective 1 to 3 days after application and controls drop for about two weeks depending upon the weather. For maximum effectiveness, apply when temperature is 70°F or higher. Fully "wet" the entire canopy to assure complete coverage. The following is offered only as a general guide. Variety, climatic conditions and other factors may determine the actual rate required.

Ground Application - Dilute: In the Eastern U.S., a single application of 10 to 20 ppm is recommended (see Table 1). In the Pacific Northwest, a single application of 15 to 20 ppm is recommended (see Table 1). Two applications at 10 ppm applied 21 days and 7 days prior to harvest may in some cases delay drop more than a single application of 20 ppm. Repeated applications of Fruitone N at 5 ppm in four weekly intervals before anticipated harvest is recommended in some states for stop-drop of apples. Repeated applications at spray concentrations of 5 to 10 ppm have little influence on the flesh firmness, soluble solids concentration, or starch index either at harvest or after cold storage.

Ground Application - Concentrate: Apply at the rate of 1.75 to 3.5 lbs. of Fruitone N per acre (25 to 50 grams AI per acre) in sufficient water to ensure good coverage. Under normal conditions, the 3.5 lbs. rate is recommended for the Pacific Northwest.

Aerial Application: Apply at the rate of 1.75 to 3.5 lbs. in at least 5 gallons of water per acre. Aircraft should utilize spray equipment that gives thorough coverage to all portions of trees. Apply only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting, the higher rates for dense foliage and heavy fruiting.

MAXIMUM SEASONAL APPLICATION RATES

In California: Do not exceed 50 grams of NAA (3.5 lbs. of Fruitone N) per acre per season.

CONTROL OF PRE-HARVEST DROP - PEARS

Bartlett, Bosc and D'Anjou

Apply to pear trees 5 to 7 days prior to harvest. Do not make more than two applications and do not delay harvest beyond optimum maturity. Fruitone N becomes effective 3 to 4 days after application and controls drop for about two weeks. Do not apply within two days of harvest.

Ground Application - Dilute: Apply Fruitone N at a rate of 10 to 15 ppm in sufficient water to ensure good coverage.

Ground Application - Concentrate: Apply at the rate of 0.88 to 1.75 lbs. per acre in sufficient water to ensure good coverage. Under normal conditions, use the 1.75 lbs. rate. If Bartlett and Bosc are interplanted, apply only once per season.

Aerial Application: Use 0.88 to 1.75 lbs. in at least 5 gallons of water per acre. Aircraft should utilize spray equipment that gives thorough coverage to all portions of the trees. Apply only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting, and higher rates for dense foliage and heavy fruiting. Do not apply within two days of harvest.

MAXIMUM SEASONAL APPLICATION RATES

In California: Do not exceed 50 grams of NAA (3.5 lbs. of Fruitone N) per acre per season.

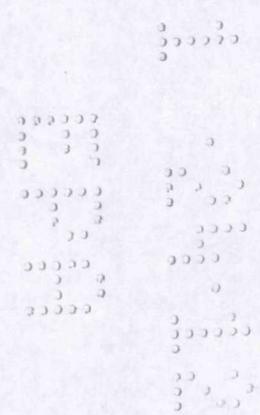
STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Do not store near fertilizers, seeds, insecticides or fungicides.

PESTICIDE DISPOSAL: Open dumping is prohibited. 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. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. ~~Do not reuse empty container. Triple rinse (or equivalent).~~ Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.



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LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT, SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing signed by an authorized representative of AMVAC.

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