


5481-427

3/8/2013

1/8

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|  <p>U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Chemical Safety and Pollution Prevention Office of Pesticide Programs Registration Division (7504P) 1200 Pennsylvania Ave., N.W. Washington, DC 20460</p> <p>NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> Registration <input checked="" type="checkbox"/> Reregistration (under FIFRA, as amended)</p> | EPA Reg. Number: 5481-427 | Date of Issuance: MAR 8 2013 |
| | Term of Issuance: Unconditional | |
| | Name of Pesticide Product: Fruitone-N | |

Name and Address of Registrant (include ZIP Code):

Amvac
4695 MacArthur Court Suite 1200
Newport Beach, Ca 92660

Mailed to:

Kaila Moran
Registration Manager

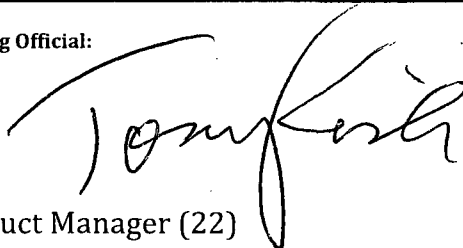
Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

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.

EPA received a label amendment request submitted by email on February 8, 2012. EPA grants this request under the authority of section 3(c)(5) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. With this accepted labeling, all requirements set forth in the Reregistration Eligibility Decision for naphthaleneacetic acid have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Page 1 of 2

Signature of Approving Official:



Tony Kish, Product Manager (22)
Fungicide Branch/Registration Division/OPP/OCSP (7504P)

Date:

MAR 8 2013

Notice of Pesticide Reregistration
Fruitone-N
EPA Reg. No. 5481-427
Page 2 of 2

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

The current Basic CSF on file with the Agency is dated 1/22/13. All other CSFs have been superseded.

If you have any questions or comments regarding this letter, please contact Dominic Schuler at (703) 347-0260 or via e-mail at schuler.dominic@epa.gov.

Enclosure:

- Section 3 Label stamped "Accepted"
- PRB Label Review dated 09/6/2012
- Acute Toxicity Review DP366815 dated 07/10/2009
- Product Chemistry Review DP403348 dated 08/27/2012

3/8

ACCEPTED

MAR 8 2013

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 5481-427

5481-427

Fruitone® N

PREVENTING 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 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: For Medical Emergencies phon.....1-888-681-4261 For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC.....1-800-424-9300 For Product Use Information phone : AMVAC.....1-888-462-6822 | |
| 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



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin, or inhaled. Avoid breathing vapor of spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 exists, 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/PPE 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
- Protective eyewear

Product 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

5/8

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 labeled 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.

SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

Wind speed restriction:

Do not apply when wind speeds are greater than 10 mph at the application site.

Specific language for orchard air blast:

Sprays must be directed into the crop canopy.

Outward pointing nozzles should be turned off at row ends and when spraying outer rows.

For ground based applications and aerial applications, use only medium or courser spray droplets (or nozzles) according to ASABE (S572) definition for standard nozzles

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

Table 1

| Rate (ppm) | Gallons of Spray per Acre | | | | | | | |
|---------------|---------------------------|--------|------|--------|------|--------|------|--------|
| | 100 | | 150 | | 300 | | 400 | |
| | oz | (lb.) | oz | (lb.) | oz | (lb.) | oz | (lb.) |
| 2.8 | 1.2 | | 1.8 | | 3.6 | | 4.8 | (0.30) |
| 4.65 | 2.1 | | 3.0 | | 6.0 | (0.38) | 8.0 | (0.50) |
| 7 | 3.0 | | 4.5 | (0.28) | 9.0 | (0.56) | 12.0 | (0.75) |
| 9.3 | 4.0 | (0.25) | 6.0 | (0.38) | 12.0 | (0.75) | 16.0 | (1.00) |
| 13.9 | 6.0 | (0.38) | 9.0 | (0.56) | 18.0 | (1.12) | 24.0 | (1.50) |
| 18.6 | 8.0 | (0.50) | 12.0 | (0.75) | 24.0 | (1.50) | 32.0 | (2.00) |

Do not exceed 3.5 pounds of product per acre per application. Do not exceed 10.5 lbs of product per acre per year

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 2 as a guide to adjust your thinning rates for Fruitone N. 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 - 18.6 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.

7/8

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 49 grams AI per acre) in sufficient water to ensure good coverage. **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 APPLICATION RATES

Do not exceed 3.5 pounds of product per acre per application.

Do not exceed 10.5 lbs of product per acre per year

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 must 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 APPLICATION RATES

Do not exceed 3.5 pounds of product per acre per application.

Do not exceed 10.5 lbs of product per acre per year

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 HANDLING: 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 ¼ 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. 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.

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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, 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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Sevin[®] is a registered trademark of Rhone Poulenc Ag Co.

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