



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

December 9, 2019

Julie Porter
Director of Regulatory Compliance
AMVAC Chemical Corporation
4695 MacArthur Court, Suite 1200
Newport Beach, CA 92660

Subject: Label Amendment – Amending label with Formatting Changes, Trademarks,
Expanded Directions for Uses and Other Company Changes
Product Name: Amid-Thin-W
EPA Registration Number: 5481-426
Application Date: 3/29/2018
Decision Number: 540088

Dear Ms. Porter:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

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

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements 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 Agency 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.

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

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with FIFRA section 6. If you have any questions, please contact Nathan Mellor by phone at 703-347-8562, or via email at mellor.nathan@epa.gov.

A handwritten signature in black ink, reading "Shaja B. Joyner". The signature is written in a cursive style with a large initial "S".

Shaja B. Joyner, Product Manager 20
Fungicide-Herbicide Branch
Registration Division 7505P

Enclosure

ACCEPTED
 12/09/2019
 Under the Federal Insecticide, Fungicide
 and Rodenticide Act as amended, for the
 pesticide registered under
 EPA Reg. No. 5481-426

Amid-Thin® W

For Thinning Apples and Pears

ACTIVE INGREDIENT:

1-Naphthaleneacetamide.....8.40%

INERT INGREDIENTS:.....91.60%

TOTAL.....100.00%

Equivalent to 8.44% Napthaleneacetic acid (NAA)

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 inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
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 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.
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 phone:.....1-888-681-4261 For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC®.....1-800-424-9300 For Product Use Information phone: (AMVAC® or VALENT®).....1-888-462-6822	

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

EPA Reg. No. 5481-426
 EPA Est. No. _____

Net Weight:
 As Marked on Container

AMVAC Chemical Corporation
 4695 MacArthur Court, Suite 1200
 Newport Beach, CA 92660 U.S.A.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes and socks, and
- Chemical-resistant gloves

User Safety Requirements

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

User Safety Recommendations

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

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 wash waters or rinsate. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when weather conditions favor drift from treated area. 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 Amid-Thin W through any type of irrigation system. Amid-Thin W contains 1-Naphthaleneacetamide and is used to thin many varieties of apples and pears.

Restrictions:

- The maximum application rate is 20.9 oz. Amid Thin W (0.11 lbs. active equivalent) per acre per application.
- DO NOT EXCEED 62.7 oz. (0.33 lbs. active equivalent) per acre per year. The maximum annual quantity and per application rate is based on NAA (as acid) equivalent of the active ingredient. Note: Amid-Thin W contains 8.44% NAA or 8.40% 1-naphthaleneacetamide (NAD).
- The Pre-Harvest Interval (PHI) is 2 days.
- The minimum Re-Treatment Interval (RTI) is 7 days.
- If the maximum rate of 20.9 oz. Amid Thin (0.11 lbs. active equivalent) is used for application, then the maximum number of applications per year is three. For pears, only two applications per crop cycle are recommended to decrease the risk for pygmy fruit.

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. These requirements 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, including plants, soil, or water, is:

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

PRODUCT INFORMATION: Amid-Thin W contains a synthetic auxin (1-Naphthaleneacetamide) which mimics the natural plant hormone, 1-indoleacetic acid and has been widely used in commercial fruit production for thinning to increase fruit size and quality. Amid-Thin W is a relatively mild thinner compared to Fruitone® L (1-Naphthaleneacetic acid, sodium salt) but remains active over a longer time period. The response of fruit trees to Amid-Thin W application may vary in different years. Therefore, the grower needs to review the previous year's thinning performance in the orchard and take into consideration the existing varieties, prevailing and anticipated weather conditions, location, tree vigor, fruit set potential, pollination and other factors before choosing the desired use rate and timing of application.

Importance of Spray Volume: It is important to use sufficient water to ensure uniform spray coverage. The appropriate spray volume (e.g. based on tree row volume) can be determined by the type of equipment used, density of the foliage, tree spacing, coverage desired and intended spray pattern. For ground applications, use 100-300 gallons of spray solution per acre. Consider all variables in rate and application timing for each variety and orchard location prior to establishing the thinning program.

DIRECTIONS FOR MIXING: Prepare sufficient spray mixture to ensure thorough coverage of trees. When using Amid-Thin W, fill the tank with water, turn on the agitator and then add Amid-Thin W followed by other compatible products. Keep under constant agitation during spray operations. Tank mixtures of reduced-rate combinations of Amid-Thin W and products including Carbaryl (e.g. Sevin® 4F and Sevin® XLR Plus), Ethephon (Ethrel®) or 6-benzyladenine (MaxCel®) have been used to enhance thinning. Do not tank mix Amid-Thin W with any product containing a label restriction against such mixing. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions, limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture. Always apply in accordance with the limitations and precautions of the most restrictive label and always test any tank-mix for efficacy, compatibility and phytotoxicity prior to large scale use (see below).

PRODUCT COMPATIBILITY: Amid-Thin W, when diluted with the directed amount of water, is physically compatible with a wide range of commonly used spray products. However, the full range of compatibility under local conditions must be established by the grower. It is advised that growers premix a small quantity of the 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 precautions and limitations on labeling of all products used in any tank mix and ensure that there is always proper agitation in the tank. Please consult your local Extension agent or Pomologist for local directions or when tank mixing any product you have not previously used with Amid-Thin W. In addition, to ensure plant safety, always test spray on a few sample trees prior to the use of a tank mix that you have not previously used.

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

Wind speed restrictions:

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

Orchard Airblast Sprayer Advisory:

Sprays must be directed into the crop canopy.

Turn off outward pointing nozzles at row ends and when spraying outer rows.

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

Aerial Application Advisory: Make applications in 5 or more gallons of water per acre. Utilize aircraft spray equipment which gives thorough coverage to all portions of the trees. Apply only when weather conditions are not conducive to drift. Use lower rates for normal foliage and fruiting and higher rates for dense foliage and heavy fruiting.

DIRECTIONS FOR THINNING APPLES

Tree response to Amid-Thin W applications varies greatly based on variety, tree vigor and architecture, alternate bearing tendencies, pollination, weather conditions before, during and after application and bee activity. Other important factors to consider are last year's fruit set level and current year's nutrient reserve status, which is affected by crop load and foliage vigor during the preceding year. Amount of bloom and other factors that make for good fruit set will vary depending on location. Therefore, the amount of thinning to obtain optimal fruit load can vary from year to year. Contact your local Extension Pomologist for time of application and rates to be used for your specific thinning problems and varietal concerns. Spray Amid-Thin W at a rate of 25 to 50 ppm at full bloom or up to petal fall (**Table-1**). Limit the use of the higher concentrations given in **Table-1** below to difficult-to-thin, and/ or vigorous trees with ample pollination and good initial fruit set. Use the lower concentration on easy-to-thin varieties and/or weaker, less vigorous trees with less energy reserves. **One of the outstanding advantages of Amid-Thin W is that it lowers the risk of over-thinning and therefore can be used as the first step for obtaining optimal fruit load.** It is important to reduce the amount of Amid-Thin W appropriately when mixing with other thinners including carbaryl or 6-BA. It is also important that Early Summer varieties are sprayed no later than petal fall since applications two to three weeks later often give insufficient thinning and may result in the development of inferior pygmy fruit. Apply when daytime temperatures are between 65°F to 85°F. Do not spray when daytime temperatures are below 50°F.

The tables below are offered only as a guide. Consult your local extension pomologist or orchard consultant for precise directions.

Table-1. Application Rates of Amid-Thin W for Thinning Apples at Full Bloom¹, Petal Fall² in Normal Years³

Apple Varieties	Rate (NAA ppm)	Amount of Amid-Thin W		
		100 gallons/Acre	150 gallons/Acre	300 gallons/Acre ⁴
Easy-to-thin: Granny Smith, Braeburn, Cripps Pink, Cortland, Baldwin, Idared, Jonathan, Northern Spy, McIntosh, Red Delicious, Rome Beauty, Stayman, Rhode Island Greening, and others.	25-40	0.25 – 0.40 lb. (4.0 – 6.4 oz.)	0.38 – 0.60 lb. (6.1 – 9.6 oz.)	0.75 – 1.20 lb. (12.0 – 19.2 oz.)
Moderately difficult-to-thin: Gala, Golden Supreme, Honeycrisp, Cameo, Gingergold, Jersey mac, Rome, Jonagold, Empire, Olenburg (Duchess) Red Astrachan, Spartan, Mutsu, Yellow Transparent, Williams Early and others.	25-50	0.25 – 0.50 lb. (4.0 – 8.0 oz.)	0.38 – 0.75 lb. (6.1 – 12.0 oz.)	0.75 – 1.31 lb. (12.0 – 20.9 oz.)
Difficult-to-thin: Fuji, Golden Delicious, Jonamac, Lodi, Macoun, York, Yellow Newton, Paula Red, Early McIntosh, Taylor Rome and others.	40-50	0.40 – 0.50 lb. (6.4 – 8.0 oz.)	0.60 – 0.75 lb. (9.6 – 12.0 oz.)	1.20 – 1.31 lb. (19.2 – 20.9 oz.)

¹ Full Bloom: When 90% of the blossoms are fully open with petals beginning to fall from the king flower.

² Petal Fall: When approximately 90% of petals have fallen off.

³ Spraying can be delayed up to 3 weeks (21 days) after full bloom if unusually cool weather has slowed growth during a cold year when daytime temperatures are consistently below 50°F.

⁴ At 300 gallons/Acre the maximum rate that can be applied is 44 ppm as NAA.

Restrictions:

- Do not apply more than 1.31 lbs. (20.9 oz.) Amid Thin W per application per acre. The maximum application rate is 20.9 oz. Amid Thin W (0.11 lbs. active equivalent) per acre per application.
- DO NOT EXCEED 62.7 oz. (0.33 lbs. active equivalent) per acre per year. The maximum annual quantity and per application rate is based on NAA (as acid) equivalent of the active ingredient. Note: Amid-Thin W contains 8.44% NAA or 8.40% 1-naphthaleneacetamide (NAD).
- The Pre-Harvest Interval (PHI) is 2 days.
- The minimum Re-Treatment Interval (RTI) is 7 days.
- If the maximum rate of 20.9 oz. Amid Thin (0.11 lbs. active equivalent) is used for application, then the maximum number of applications per year is three.

VARIETAL ADVISORY: Applications of Amid-Thin W to Red Delicious and Fuji apples or other related varieties may cause pygmy fruit. Do not make Amid-Thin W applications to these varieties later than the petal fall stage. Fruitone® N or Fruitone® L are labeled (with restrictions) for use on Red Delicious apples.

DIRECTIONS FOR THINNING BARTLETT & BOSCH PEARS

Spray Amid-Thin W at a rate of 10 to 50 ppm at petal fall (90% petal drop). Use up to 300 gallons of spray solution per acre. Applying Amid-Thin W in this manner reduces the hand labor required to supplement thinning of pears to the desired level.

DIRECTIONS FOR THINNING PEARS

As in apples, tree response to Amid-Thin W applications varies greatly based on the type of variety treated, climatic factors before and after application, tree vigor, pollination, fruit set and fruit size at time of application. Therefore, results can vary greatly from year to year. Previous orchard history, good record keeping, and evaluating use rates prior to large scale use can help a grower determine the best spray program for that orchard. In general, spray Amid-Thin W at a rate of 10 to 50 ppm at full bloom or within 5 to 7 days after petal fall (**Table-2**). Use up to 300 gallons of spray solution per acre. Large, vigorous trees with high fruit-set potential or applications made towards the end of the thinning window may require higher rates to obtain optimum results. Weaker trees with poor pollination and lower fruit set potential generally require lower rates. Under normal conditions, one application is adequate. The preferred application temperature range is between 70°F and 75°F. Applications are not advised below 60°F or above 80°F.

Table-2. Application Rates of Amid-Thin W for Thinning Pears at Petal Fall¹ during a Normal Year for Bartlett & Bosc Pears.

Rate (NAA)	Amount of Amid-Thin per Acre		
	100 gal	150 gal	300 gal ²
10	0.10 lb. (1.6 oz.)	0.15 lb. (2.4 oz.)	0.30 lb. (4.8 oz.)
15	0.15 lb. (2.4 oz.)	0.23 lb. (3.7 oz.)	0.45 lb. (7.2 oz.)
25	0.25 lb. (4.0 oz.)	0.38 lb. (6.1 oz.)	0.75 lb. (12.0 oz.)
40	0.40 lb. (6.4 oz.)	0.60 lb. (9.6 oz.)	1.20 lbs. (19.2 oz.)
50	0.50 lb. (8.0 oz.)	0.75 lb. (12.0 oz.)	1.31 lbs. (20.9 oz.)

¹ Petal Fall generally occurs 14-21 days after Full Bloom in normal years

² At 300 gallons/Acre the maximum rate that can be applied is 44 ppm NAA.

Restrictions:

- Do not apply more than 1.31lbs (20.9 oz.) Amid-Thin W per application per acre. The maximum application rate is 20.9 oz. Amid Thin W (0.11 lbs. active equivalent) per acre per application.
- DO NOT EXCEED 62.7 oz. (0.33 lbs. active equivalent) per acre per year. The maximum annual quantity and per application rate is based on NAA (as acid) equivalent of the active ingredient. Note: Amid-Thin W contains 8.44% NAA or 8.40% 1-naphthaleneacetamide (NAD).
- The Pre-Harvest Interval (PHI) is 2 days.
- The minimum Re-Treatment Interval (RTI) is 7 days.
- The maximum number of applications per year is three, but only two applications per crop cycle are recommended to decrease the risk for pygmy fruit.

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 must be disposed of according to use directions or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container $\frac{1}{4}$ 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. Then dispose of in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of it in the same manner.

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants (a) that this product conforms to the chemical description on the label; and (b) 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. THIS WARRANTY DOES NOT EXTEND TO THE USE OF THIS PRODUCT CONTRARY TO LABEL INSTRUCTIONS, OR UNDER CONDITIONS NOT REASONABLY FORESEEABLE.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW 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.

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 TORT, 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 MANUFACTURER OR SELLER SHALL NOT 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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[Optional Marketing]

