

1 1996

Mr. Eliot I. Harrison
Entek Corporation
P.O. Box 458
Brea, CA 92622

Subject: Wilthin
EPA Registration No. 68891-~~4~~⁵
New use
Your Application Dated 09/12/95

Dear Mr. Harrison:

The subject product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) and (B) provided that you:

- 7/19/96
Aunt
1. Revise label statements as follows: Under COTTON HARVEST AID, delete product names that Wilthin may be tank mixed with or add specific use directions for each of these type products; and
 2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

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

A stamped copy of the label is enclosed for your records.

Sincerely yours,



Robert J. Taylor
Product Manager (25)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

WILTHIN™

BLOSSOM THINNER AND COTTON HARVEST AID

Active Ingredient:	
1-aminomethanamide dihydrogen tetraoxosulfate	79.0%
Inert Ingredients	21.0%
TOTAL	100.0%

Weight in lbs/gallon @ 68.0°F 12.65 lbs.

EPA Reg. No. 68891-4
EPA Est. No. 612-WA-1; 51856-WA-1

WARRANTY LIMITATIONS AND DISCLAIMER

1. Entek warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated when used in accordance with the use directions under normal conditions. Entek neither makes, nor authorizes any agent or representative to make, any other warranty of fitness or of merchantability, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Entek's control prevent it from eliminating all risks in connection with the use of this material. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for uses stated herein and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability resulting from the handling, storage, and use of this material (except those assumed by Entek in (1) above). Entek shall not be liable for incidental or consequential damages.

PATENTS AND PATENTS PENDING

The product contained herein is described in one or more of the following U.S. composition, manufacturing and/or method of use patents: 4397675, 4402852, 4404116, 4445925, 4447253, 4522644, 4673522, 4818269, 4831056, 4944787, 4962283, 4966620, 4994101, 5034046, 5035737, 5055127, 5149355, 5185151, and 5221659. Other U.S. and foreign patents are pending.

A license is hereby granted to the purchaser under the above listed U.S. Patents only, and only for the use of the product contained herein, and only in accordance with the instructions on this label. NO OTHER LICENSE, EXPRESS OR IMPLIED, IS GRANTED. NOT FOR EXPORT.

TRADEMARKS

WILTHIN is a trademark of Entek Corporation.
Regulaid is a registered trademark of KALO, Inc.
Dropp 50WP is a registered trademark of NOP-AM Chem Co.
Cyclone is a registered trademark of ZENECA Ag Products.
Ginstar is a registered trademark of AgrEvo USA Co.
Harvade 5F is a registered trademark of Unirexal Chem Co.
Quick-Pick is a registered trademark of United Agri-Products, Inc.
Starfire is a registered trademark of ZENECA Agrochemicals.
Prep is a registered trademark of Rhone-Poulenc Ag Co.
Micro Flo Ethephon 6 is a registered trademark of Microflo Corp.
Pluck is a registered trademark of Cedar Corp.
Roundup is a registered trademark of Monsanto Co.
Super Boll is a registered trademark of Griffin Corp.

KEEP OUT OF REACH OF CHILDREN

DANGER PELIGRO

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

SEE ADDITIONAL PRECAUTIONARY STATEMENTS
ON THE NEXT PAGE

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Holding lids apart, flush with gentle stream of water for 30 minutes.

IF ON SKIN: Flood contaminated area with water.

IF SWALLOWED: Do NOT induce vomiting. If victim is conscious and alert give one glass of milk or water to drink; ½ glass to children under age 5. Do NOT exceed above quantities in order to avoid vomiting. Refer to the Material Safety Data Sheet for additional information. **GET MEDICAL TREATMENT IMMEDIATELY.**

PHYSICIAN: Call 1 (800) 424-9300 for further information.

Manufactured for



Entek
 SECURED
 WITH COMMENTS
 In EPA Letter Dated
 9/26/88
 92622-0458

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act
 as amended, for the pesticide
 registered under EPA Reg. No.
 68891-4

Net Contents _____ Gallons

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER

CORROSIVE. Causes irreversible eye damage. Moderately irritating to skin. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Avoid breathing spray mist.

PERSONAL PROTECTIVE EQUIPMENT (PPE): Applicators and other handlers must wear:

- Coveralls over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure
- Chemical-resistant apron when cleaning equipment, mixing, or loading.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instruction for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENTS: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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 this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS: This product may be harmful to wildlife directly sprayed. 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. Do not apply in any manner not specified on the label.

PHYSICAL OR CHEMICAL HAZARDS: Do not allow WILTHIN to be heated above 176°F, as the quality of the product may deteriorate. If WILTHIN is heated above 230°F, vigorous decomposition may occur. Do not weld equipment containing WILTHIN.

CLOTHING: WILTHIN can attack cotton, nylon, and leather clothing. If WILTHIN contacts clothing of this type, flush with plenty of water to minimize damage.

DO NOT MIX with other materials without specified authorization, as hazardous combinations may result.

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

STORAGE AND DISPOSAL

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

STORAGE: Material crystallizes below 32°F. Do not heat above 176°F.

Materials recommended for use with WILTHIN include polyethylene, polypropylene, PVC, CPVC, fiberglass made with reinforced resins such as polyesters and epoxides, most rubbers, and 316 stainless steel.

Do not expose mild steel, leather, nylon, or acid sensitive resins such as delrin and celcon to undiluted WILTHIN.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Follow all applicable directions, restrictions, and precautions on the EPA-registered label. 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. This label must be in the possession of the user at the time of application.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements in this labeling 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 24 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 over long-sleeved shirt and long pants
- Waterproof gloves
- Chemical resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear for overhead exposure

BLOSSOM THINNER

APPLICATION RECOMMENDATIONS

APPLES

For thinning of blossoms on apples to reduce fruit set and alternate bearing tendencies, apply 2 to 3 pints of WILTHIN per 100 gallons of total volume. Do not exceed 3 pints per 100 gallons. The 3 pint per 100 gallon rate is usually optimum, but results may vary depending on bloom uniformity, rootstock, tree size, vigor and age. Healthy mature, or difficult to thin trees may require the higher rate, while trees or spurs with low vigor will show a greater degree of thinning for a given rate of WILTHIN. APPLICATION OF WILTHIN MAY CAUSE MINOR LEAF BURN AND SOME FRUIT MARKING. Small spray droplet size reduces the potential for fruit injury.

Apply as a dilute spray in sufficient volume to achieve adequate wetting of the target flowers, which is usually 150-350 gal/acre, depending on tree size. Do not exceed 400 gallons per acre of total spray volume. DO NOT USE CONCENTRATED SPRAYS. Use clean spray water -- avoid muddy or silty water sources which may deactivate WILTHIN. Avoid over-spraying on turns and adjacent rows which may cause excessive thinning or leaf and fruit injury. Shut off the lower nozzles on the spray boom to avoid over-thinning of weaker blooms on the lower and inside portions of the trees.

Do not spray until 70%-80% of the blossoms are open, and after pollination and fertilization of the king bloom has occurred. Do not apply if foliage is wet or if rain is expected within 2 hours. Do not apply WILTHIN at night, under slow drying conditions, or when temperatures are above 85°F. Long bloom periods and variation in bloom development within the tree may expose early pollinated fruit to marking from a WILTHIN spray.

Do not combine WILTHIN with other materials. When using WILTHIN, do not use foliar sprays containing copper, crop oil or the fungicide dodine after tight cluster bud stage. The use of zinc, sulfur, or lime sulfur sprays in the pre-bloom stages should be in accordance with the manufacturer's label but not closer than 7 days before WILTHIN application.

Do not apply WILTHIN with surfactants or spray oils. The only exception is an option for the addition of 1 pint per 100 gallons of spray volume of Regulaid™ spray adjuvant with a reduced rate of 2 pints of WILTHIN. This combination may reduce the potential for fruit marking and slightly enhance thinning. Do not use Regulaid when using 3 pints of WILTHIN as excessive thinning and/or fruit marking may occur.

Certain varieties such as Gala, Fuji and especially Granny Smith are very susceptible to fruit injury and resultant fruit marking. WILTHIN is not recommended for commercial application on those or other untested varieties. Consult with your fieldman regarding the use of WILTHIN on your varieties. The degree of susceptibility to fruit marking increases (lowest to highest) as follows: Red Delicious, Newtown, Braeburn, Red Rome, and Golden Delicious. Other varieties have not been adequately evaluated.

WILTHIN can be used only one time per season. Application of WILTHIN can be made from March 10 - May 20. Follow-up sprays of other chemical thinners or hand thinning may be necessary to

adjust fruit load, depending on variety and overall vigor of the trees. WILTHIN will not harm spray equipment, but it may cause scale or other spray tank residues to dislodge. Thoroughly clean and remove all other chemical residues in the spray tank, hoses, screen and nozzles before using WILTHIN. Rinse with a neutralizing agent before parking.

PEACHES AND NECTARINES

For thinning blossoms on peaches and nectarines to reduce fruit set, apply 3 to 6 quarts of WILTHIN per acre. Application should be made using an air blast sprayer only. Apply as a dilute spray to achieve adequate wetting of the target flowers. This requires 100 to 250 gallons per acre of spray volume, depending on tree size. Low volume concentrated sprays are NOT recommended. The 4 to 5 quart rate is usually optimum, but results may vary depending on variety, tree size, and bloom uniformity.

Thinning response to WILTHIN is linear with rate, and the desired amount of at-bloom thinning should take into account other factors that will affect fruit set and quality. Optimum timing is as close to full bloom as possible. Thinning occurs mainly on flowers that are open but not yet fertilized. Apply only after adequate pollination and fertilization of the early bloom has occurred. Direct the air blast spray pattern to the primary fruiting zone of the tree. Shut off the lower nozzles on the spray boom to avoid over-thinning of weaker blooms on the lower and inside portions of the trees.

Do NOT combine WILTHIN with other materials. The use of spray adjuvants is NOT recommended. The use of spray oils, or other nutrient, sulfur or fungicide sprays, in the pre-bloom stages should be according to the manufacturer's label but not closer than 14 days before WILTHIN application. Avoid extended drying conditions such as night applications. Do not apply if the foliage is wet, or if rain is expected within 2 hours. Minor leaf burn may occur on expanded foliage exposed to WILTHIN spray.

Only one application of WILTHIN may be made during the bloom period. Application can be made from March 1 - May 20. Subsequent hand thinning may be necessary to adjust proper fruit load, depending on the variety and bloom density of the trees.

WILTHIN application will NOT harm bees.

WILTHIN will not damage spray equipment, but may cause scale or other spray tank residues to dislodge. Thoroughly clean and remove all other chemical residues in the spray tank, hoses, screen and nozzles before using WILTHIN. Rinse with a neutralizing agent before parking.

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COTTON HARVEST AID

APPLICATION RECOMMENDATIONS

COTTON

GENERAL INFORMATION

WILTHIN, when tank mixed with a registered Ethepon product and applied as a foliar spray to cotton, greatly improves the action of Ethepon. This tank mixture provides fast, effective defoliation of cotton and substantially increases the speed and efficacy of opening mature bolls. Typically, satisfactory defoliation is achieved within 7 days. Adverse conditions, such as low temperatures and/or toughened plants may require up to 14 days. WILTHIN when tank mixed with a registered Ethepon product also provides improved control of cotton regrowth.

APPLICATION TIMING AND RATE

Refer to the label of the specific brand of Ethepon product to be used in combination with WILTHIN. Do not apply before sufficient mature unopened bolls have developed to produce the desired cotton yield. Consult University recommendations in your area for testing of boll maturity.

Apply 1-3 quarts of formulated WILTHIN per acre in combination with the appropriate rate of registered Ethepon product (refer to the label of the specific brand of Ethepon product to be used). For most registered products formulated as 6 pounds of Ethepon active ingredient per gallon, the label allows 0.67 pints/acre - 2.67 pints/acre (see list below). For best results in obtaining increased defoliation and boll opening, apply 2-3 quarts of formulated WILTHIN in combination with 2 pints/acre of a registered Ethepon product or 1.5 pounds of Ethepon active ingredient/acre. During adverse weather conditions (nighttime lows <60°F, daytime highs <75°F) or on rank cotton, use 2-3 quarts of formulated WILTHIN in combination with 2.67 pints/acre of a registered Ethepon product or 2.0 pounds of Ethepon active ingredient/acre. All recommendations and requirements of the specific registered Ethepon label must be followed.

When conditions are favorable for excessive regrowth prior to harvest, Dropp 50WP may be added to the tank mix to aid in control of regrowth (refer to the Dropp label for rates). Generally, satisfactory results are obtained by the addition of 0.10 pounds of formulated Dropp 50WP per acre.

To ensure optimum activity, thorough and uniform spray coverage is required. It is essential that cotton leaves and unopened bolls are contacted in order to achieve satisfactory results. Apply as a dilute spray in 15-50 gallons of water per acre by ground application or 3-10 gallons of water per acre by aerial application.

Only one application of WILTHIN is allowed per year.

WILTHIN may also be tank mixed with Cyclone, Ginstar, Harvade, Quick-Pick, Roundup or Starfire. WILTHIN may be tank mixed with the following listed Ethepon products (Pep, Micro Flo Ethepon 6, Pluck, and Super Boil) or any Ethepon products registered for use in cotton.

Do not use urea, ammonium sulfate or fertilizer products with WILTHIN tank mixtures.

MIXING PROCEDURE

Add 1/2 to 3/4 of the required amount of water to the spray tank and begin agitation. Add the required amount of WILTHIN and the required amount of the registered Ethepon product, and then the remaining amount of water. If Dropp 50WP is used in the mixture, it should be added to the spray tank first, followed by WILTHIN and Ethepon. Prepare only as much spray solution as can be used on the day of mixing. Do not allow the spray solution to stand overnight. Do not permit concentrated WILTHIN to contact painted surfaces, spray equipment, or any airplane parts. All spills should be rinsed immediately with plenty of water.