



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

February 27, 2015

Rebecca Clemmer
Regulatory Manager
United Phosphorus Inc.
630 Freedom Business Center
Suite 402
King of Prussia, PA 19406

Subject: Label Notification per PRN 98-10 – Clarification of dilution rates
Product Name: Thinrite Blossom Thinner
EPA Registration Number: 70506-296
Application Date: 1/13/15
Decision Number: 499526

Dear Ms. Clemmer:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

If you have any questions, you may contact Dominic Schuler at 703-347-0260 or via email at schuler.dominic@epa.gov.

Sincerely,

A handwritten signature in black ink that reads "Kathryn V. Montague". The signature is written in a cursive style with a long horizontal flourish extending to the right.

Kathryn Montague, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

02/27/2015

THINRITE BLOSSOM THINNER

ACTIVE INGREDIENT:

Dipotassium salt of Endothall*5.37%

OTHER INGREDIENTS:.....94.63%

TOTAL100.0%

*Contains 0.564 pounds per gallon of the active ingredient Endothall, in the form of its dipotassium salt.

Equal to 0.40 pounds per gallon of the acid equivalent.

KEEP OUT OF REACH OF CHILDREN CAUTION

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.)

FIRST AID

IF ON SKIN OR CLOTHING:

- 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:

- 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 by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

IF IN EYES:

- 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.
- Call a poison control center or doctor for treatment advice.

HOTLINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 866-673-6671 (Rocky Mountain Poison Control Center) for emergency medical treatment information.

NOTE TO PHYSICIAN: Measures against circulatory shock, respiratory depression, and convulsion may be needed.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300.

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Net Contents:

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)
CAUTION**

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, Loaders, Applicators, and other handlers must wear:

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

In addition, Applicators in open cabs must wear:

- PF5 respirator

See Engineering Controls for additional requirements.

User Safety Requirements:

Follow the manufacturers' 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. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

Engineering Controls:

When handlers use closed systems or enclosed cabs 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/PPE 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

This pesticide is toxic to mammals. For terrestrial uses: Do not apply directly to water, or 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 washwater or rinsate. Keep out of lakes, streams, and ponds.

ThinRite Blossom Thinner is practically nontoxic to bees and wasps when used according to this label.

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 State or Tribal agency responsible for pesticide regulation.

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 over long-sleeved shirt and long pants,
- Chemical-resistant gloves made from any waterproof material,
- Chemical-resistant footwear plus socks,
- Chemical-resistant headgear for overhead exposures,
- Protective eyewear,
- PF5 respirator

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

INFORMATION

ThinRite Blossom Thinner is for use as a spray for the thinning of blossoms on apple trees. This product should be used as part of an apple thinning program. Post bloom fruit thinners may be used to provide additional thinning when necessary. Hand thinning may also be necessary to reach desired fruit load and spacing.

USE PRECAUTIONS

Adequate pollination of the king bloom is necessary for production of quality apples and should always be considered when using this product. Thinning results and the potential for fruit marking and leaf burn may vary due to several factors, including: application variables, apple variety, tree vigor, tree age, rootstock, cultural practices, pollinator activity, amount of bloom, bloom position in the canopy, and environmental conditions. Application on low vigor or stressed trees may result in over thinning and/or fruit finish marking and leaf burn.

ThinRite Blossom Thinner has been tested on many but not all varieties and cultivars of apples under a wide range of environmental and cultural conditions. Plant response may vary as conditions vary. Exercise caution to avoid over thinning and possible yield reduction. The user must weigh the risk versus benefits when using this product. Consult with your local County Extension Service or other experts for advice on the proper use of this product.

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

APPLICATION INSTRUCTIONS

Spray Equipment:

Apply ThinRite Blossom Thinner as a dilute spray with air blast orchard equipment using a minimum of 80 gallons of spray solution per acre, depending on tree size, to provide good coverage of the blossoms. Do not apply to a drip, as excessive spray coverage may increase the potential for over thinning, fruit finish marking, and leaf burn. Spray must be directed to areas of the canopy where the most thinning is desired.

Avoid excessive application on low vigor branches to reduce the potential for over thinning, fruit finish marking, and leaf burn. Do not apply with handgun sprayer or aerial application equipment. Do not apply this product through any type of irrigation equipment. Clean the spray tank before and after use of this product.

Spray Drift Management:

Do not make applications when conditions favor drift beyond the target application area. When drift may be a problem, take measures to reduce drift, including;

1. Do not spray if wind speeds are or become excessive. Do not spray if wind speed is 15 mph or greater. If non-target crops are located downwind, use caution when spraying if wind is present.
2. Use caution when conditions are favorable for drift (high temperatures and/or low relative humidity).
3. Do not apply when a temperature inversion or stable atmospheric conditions exist. If these conditions are suspected, consult with local weather services before making an application.

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

rows.

Apply using a nozzle height of no more than 4 feet above the ground or canopy cover.

Spray Mix pH:

The pH of the final ThinRite Blossom Thinner spray mix should be between 6 and 7. Use non-surfactant type acidifiers or buffers to adjust the pH if necessary.

Tank-Mixing:

ThinRite Blossom Thinner can be applied in a tank mixture, or in sequential application with other blossom thinners such as ammonium thiosulfate, lime sulfur, or oil products to enhance blossom thinning. Follow all applicable use precautions and rate per acre requirements on labels of products applied as tank mixtures, or in sequence with ThinRite Blossom Thinner. No label dosage rates should be exceeded. Tank mixtures must be applied in accordance with the most restrictive label limitations and precautions. ThinRite cannot be mixed with any product containing a label prohibition against such mixing. Under some conditions, tank mixtures with other products may result in plant response due to increased activity.

ThinRite is registered for use on the following crops:

- Apples

Application Rates and Timing:

Application timing will vary depending on several factors including: variety, length of bloom, pollinator activity, and environmental factors. To avoid over thinning, fruit finish marking, and leaf burn, ThinRite should not be applied when the temperature exceeds 85° F or is expected to exceed 85° F within 24 hours of application. Avoid application on foliage and blossoms with standing moisture, under slow drying conditions, or when wet weather is expected within 4 to 6 hours.

Make applications using 80 to 400 gallons spray solution per acre, depending on tree size. Use the lower water volume range when less thinning is desired, on easy-to-thin varieties, and when conditions are favorable for thinning. Use higher water volumes for more aggressive thinning on hard-to-thin varieties under adverse thinning conditions.

ThinRite Blossom Thinner can be applied as a single application or as a sequential application.

Single Application: Apply 1 to 4 pints (0.07 – 0.28 lbs ai) per acre ~~per 100 gallons of water~~ using 80 to 400 gallons of spray solution ~~per acre~~ using air blast equipment. Application should be timed to remove side blooms after pollination of the king bloom. Optimum timing is usually when approximately 60 to 80% of the blooms are open. Later bloom application may reduce the amount of thinning.

Calculation for determining use rate per volume of spray solution:

~~Use rate per acre (pints) x Gallons of water per acre (GPA) ÷ 100~~

~~Example: Desired rate = 2 pints in a 200 GPA spray volume. Calculation would be 2 (pts) x 200 (GPA) ÷ 100 = 4 pints of ThinRite Blossom Thinner per acre.~~

Sequential Applications: Apply two times per season using 1 to 4 pints (0.07 – 0.28 lbs ai) per acre ~~per 100 gallons of water~~ using 80 to 400 gallons of spray solution ~~per acre~~ using air blast equipment. Use two applications when more thinning is desired; for example, on varieties that tend to be hard-to-thin, when extended bloom occurs, or when return bloom is heavy. Apply the first application at approximately 20 to 40% full bloom followed by a second application at approximately 60 to 80% full bloom. Note: the first application may thin some king blooms that are not pollinated at that time. Do not apply more than once in a 24-hour period.

~~Calculation for determining use rate per volume of spray solution:~~

~~Use rate per acre (pints) x Gallons of water per acre (GPA) ÷ 100~~

~~Example: Desired rate = 1 ½ pints in a 250 GPA spray volume. Calculation would be 1.5 (pts) x 250 (GPA) ÷ 100 = 3.75 pints of ThinRite Blossom Thinner per acre.~~

Restrictions:

- Do not make more than two applications per acre per year.
- Do not apply more than once in a 24-hour period.
- Do not exceed a total of 8 pints (0.56 lbs ai or 0.40 acid equivalent) of ThinRite Blossom Thinner per acre per year.
- Only apply during bloom. Do not apply after 100% bloom.
- Preharvest Interval (PHI) : 70 days

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in the original container. Do not store in a manner where cross-contamination with other pesticides, fertilizers, food or feed could occur. Storage at temperatures below 32 °F may result in the product freezing or crystallizing. Should this occur the product must be warmed to 50 °F or higher and thoroughly agitated. In the event of a spill during handling or storage, absorb with sand or other inert material and dispose of absorbent in accordance with the Pesticide Disposal instructions listed below.

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 Instructions:

Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse (or equivalent) promptly after emptying.

For containers 5 gallons or less:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after flow begins to drip. 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.

Or

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after flow begins to drip.

For containers more than 5 gallons:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Or

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Pour or pump rinsate into application equipment or rinsate collection system. Drain for 10 seconds after the flow begins to drip.

Then offer for recycling if available 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.

EMERGENCY TELEPHONE NUMBERS

CHEMTREC: (800) 424-9300

MEDICAL: (866) 673-6671 Rocky Mountain Poison Control Center

**IMPORTANT INFORMATION
READ BEFORE USING PRODUCT**

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty

and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus, Inc. or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of United Phosphorus, Inc. and Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus, Inc. and Seller harmless for any claims relating to such factors.

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