

75499-10

4-25-2005

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Registration Division (7505C)
 401 "M" St., S.W.
 Washington, D.C. 20460

EPA Reg. Number:
75499-10

Date of Issuance:
4-25-05

Term of Issuance: **Unconditional**

Name of Pesticide Product:
**Plant Synergists, Inc
 Type Rite Plant Growth
 Regulator Solution**

NOTICE OF PESTICIDE:

Registration
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

**Plant Synergists, Inc
 3001 Winchester Way
 Sugar Land, TX 77479**

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.

This product is unconditionally registered in accordance with FIFRA sec. 3(c) (5) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Make the following label change before you release the product for shipment:
 Revise the EPA Registration Number to read, "EPA Reg. No.75499-10.
3. Submit five (5) copies of the final printed labeling for the record 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 sec. 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.

Signature of Approving Official:

Janet L. Andersen

Date:

4-25-05

**Janet L. Andersen, Ph.D., Director
 Biopesticides and Pollution**

CONCURRENCES

Prevention Division

SYMBOL	EPA Form 7505C						
SURNAME	Ruech	Ruech	Ruech				
DATE	5/11/04	5/11/04	5/22/05				

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PLANT SYNERGISTS, INC.**Type Rite****Plant Growth Regulator Solution****Active Ingredients**

N-(phenylmethyl)-1H-purine-6-amine	1.8% w/w
Gibberellins A ₁ A ₇	1.8% w/w
Other Ingredients	96.4% w/w
Total	100.0% w/w

NET CONTENTS: □ 1 QUART □ 1 GALLON

KEEP OUT OF REACH OF CHILDREN

CAUTION

ACCEPTED
APR 25 2005
 Under the Federal Insecticide,
 Fungicide, and Rodenticide Act,
 as amended, for the pesticide
 registered under
 EPA Reg. No. 75499-RN

FIRST AID

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 five 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 the poison control center or a doctor. • Do not give anything to an unconscious person.
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.
HOTLINE NUMBER	
Have the product container or label present when calling a Poison Control Center, a Doctor, or going for treatment. You may also contact the National Pesticide Information Center at (800) 858-7378 for general or medical information.	

EPA Reg. No. 75499-RN

EPA Est. No.

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

CAUTION: Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category C on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Shoes plus socks

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

USERS SHOULD:

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

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 by cleaning of equipment or disposal of equipment washwaters.

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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE

Store below 75° F (24° C). Keep containers tightly closed when not in use.

PESTICIDE DISPOSAL

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

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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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 the 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 4 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

GENERAL INFORMATION

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

TYPE RITE is a plant growth regulator for use on apples, non-bearing pears and non-bearing sweet cherries. When applied at specific spray timing and concentration, TYPE RITE provides the following desirable effects:

- TYPE RITE improves the shape of Delicious apples through elongation of fruit and development of more prominent calyx lobes.
- TYPE RITE increases the weight of individual fruit on delicious and other varieties increasing the yield per tree. Some thinning will occur from the use of TYPE RITE.
- TYPE RITE will increase lateral bud break, shoot growth and improve branch angles on most non-bearing apple varieties, including nursery stock. This effect will provide a better tree framework, for early cropping.
- Use TYPE RITE to increase lateral bud break, shoot growth, improve branch angles and provide a better tree framework for early cropping on non-bearing pears and non-bearing sweet cherry trees, including nursery stock.

APPLICATION INSTRUCTIONS FOR FRUIT DEVELOPMENT

RATE & TIMING

Single Application for Improved Type:

For all states ~~except~~ Washington, Oregon, Idaho, and Utah.

Apply a single application of TYPE RITE from early king bloom to the early stages of petal fall of the side blossoms. Apply 1 to 2 pints of TYPE RITE per acre in 50 to 200 gallons of spray mixture as a fine mist spray.

For the states of Washington, Oregon, Idaho, and Utah.

Apply a single application of TYPE RITE from early king bloom (king blossoms opening and side blossoms in the balloon stage) to the early stages of petal fall of the king blossoms.

Apply 1 to 2 pints of TYPE RITE per acre in 50 to 200 gallons of spray mixture as a fine mist spray.

Split Applications for Improved Type and Size:

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Use a split application to improve typing and sizing responses. Apply the first application from early king bloom to the early stages of petal fall of the king bloom. The second application is to be made 7 to 21 days later. Apply 0.5 to 1 pint of TYPE RITE per acre in 50 to 200 gallons of spray mixture in each application. Do not, however, exceed the maximum recommended rate of a total of 2 pints per acre for the combined sprays.

Split Applications to Improve "Typiness" in Locations where the bloom period is prolonged or occurs over a period of several days: (Not For Use in California)

Make two TYPE RITE applications three or more days apart. Make the first application during the first flush of bloom. Apply the second application when the remainder of the tree canopy comes into bloom. The time between TYPE RITE applications may vary from orchard to orchard within a given growing area because of the influence of the local microclimate. In most instances a period from 3 to 7 days between sprays is adequate. Lengthen the time interval between sprays should cool weather further prolong bloom. For the most efficient use of TYPE RITE bloom progression within individual orchards should be assessed at least every 48 hours.

Apply TYPE RITE twice as two concentrate sprays each containing 0.5-1 pint of TYPE RITE in 100 gpa. Calibrate the spray machine to deliver 100 gpa and adjust nozzles to direct the spray mist to those portions of the tree canopy currently in bloom. Include an appropriate wetting agent so as to insure even thorough coverage of open blossoms.

NOTE: Make applications of TYPE RITE to non-bearing pears and non-bearing sweet cherries no later than one year prior to first anticipated fruit harvest.

MIXING INSTRUCTIONS

Add the required amount of TYPE RITE to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. Mix new solutions only in a clean, empty spray tank, and use within 24 hours. To improve spray coverage and enhance absorption use a non-ionic wetting agent, e.g. Tween®-20, or Triton®X-100.

APPLICATION PRECAUTIONS

Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and blossoms. Adjust spray volume to tree size and density. Apply TYPE RITE spray mixture as a uniform fine mist spray.

Do not spray the recommended tank mixes on any low vigor trees or trees under stress as from drought, low fertility, winter injury, etc. TYPE RITE is a plant growth regulator that must be absorbed by the plant to be effective. The best performance can be expected with good absorption conditions and healthy, vigorous trees. Do not apply TYPE RITE in more than 200 gallons of spray per acre.

Direct approximately 85% of the spray volume into the upper two-thirds of the trees. To minimize excessive spray drift, apply when air is calm.

High relative humidity and slow drying conditions favor maximum absorption of TYPE RITE. Applications in morning or evening are preferable. Conditions favoring rapid drying of the spray deposit should be avoided. Rainfall within six hours after spraying will reduce activity of TYPE RITE.

Do not apply TYPE RITE when air temperatures are lower than 40°F or greater than 90°F.

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APPLICATION INSTRUCTIONS FOR LATERAL BRANCHING AND TREE DEVELOPMENT

A single foliar application of TYPE RITE or a TYPE RITE-latex paint spot application may be applied to apples, non-bearing pears, and non-bearing sweet cherry trees, including nursery stock, to increase lateral bud break, shoot growth, improve branch angles and provide a better tree framework for early cropping.

FOLIAR APPLICATIONS

Foliar applications have proven to be efficacious in increasing bud break and branch angles on apples, non-bearing pears, and non-bearing sweet cherries being grown in nurseries.

APPLICATION RATES FOR FOLIAGE

Apples (Nursery & Orchard): Apply 125-500 PPM (.25-1 pt. TYPE RITE /5gal. of spray solution). For orchard trees apply at 1-3 inches of new terminal growth. For nursery stock treat after trees have reached a terminal height at which lateral branching is desired.

Non-bearing Pears (Nursery & Orchard) (Not for use in California): Apply 250-1000 PPM (.5-2pt TYPE RITE/5gal. Of spray solution). For orchard trees apply at 1-3 inches of new terminal growth. For nursery stock treat after trees have reached a terminal height at which lateral branching is desired.

Non-bearing Sweet Cherries (Nursery Only): Apply 250-1000 PPM (.5-2pt TYPE RITE/5gal. of spray solution). For nursery stock treat after trees have reached a terminal height at which lateral branching is desired.

Add a buffered wetting agent, e.g. Buffer X® or non-ionic wetting agent, e.g., Tween ®20, Triton® X-100, etc. to the tank at a rate of .2-.3% (1-2 oz./5gal.) prior to the addition of TYPE RITE. The final spray solution should not exceed a pH of 8.

Uniformly apply TYPE RITE with a pressurized hand sprayer, hand gun attachment to an airblast sprayer, or an airblast sprayer to thoroughly wet the bark and foliage surfaces. Total spray volume needed to achieve thorough wetting will vary with the equipment used and the size of the trees to be treated. Generally, 50-100 gallons of spray mixture will treat an acre of nursery trees planted on a 4 foot by 4 inch spacing (2200 trees). Approximately 5-10 gallons of spray mixture applied with a pressurized hand sprayer will treat 200-300 non-bearing orchard trees 1-4 year old.

LATEX APPLICATIONS

TYPE RITE applied in latex paint has proven effective in increasing bud break and branch angles when applied to one year old wood on apples and orchard grown non-bearing sweet cherries.

APPLICATION RATES FOR LATEX

Apples (Nursery and Orchard) and Non-bearing Sweet Cherries (Orchard Only): Apply 5000-7500 PPM (.2-.33 pt. TYPE RITE per pint of latex paint) in the spring when terminal buds begin to swell but before shoots emerge

NOTE: Do not apply after buds break. Applications after buds have broken have caused some injury to tender shoot tips and failed to promote shoot growth from that point.

Add a buffered or non-ionic wetting agent to the TYPE RITE and latex paint mixture at the rate of .5-1% (.1-.15 oz. per pint of paint) prior to the addition of TYPE RITE. The addition of a wetting agent will improve the dispersion of TYPE RITE in the latex paint and will also improve wetting and absorption through the waxy cuticular layer of the bark surface.

Uniformly apply the TYPE RITE latex paint mixture with a brush or sponge to thoroughly cover the bark surface. NOTE: Apply only to one year old wood.

TANK MIX COMPATIBILITY

Apply TYPE RITE in combination with the plant nutrients and fungicides listed below, if desired:
Fungicides (Not for use in California)

Benlate®, Ferbam, Polyram®, Thiram, Dithane® M-45, Orthocide®, wettable sulfur may be tank mixed with TYPE RITE at the recommended timing associated with bloom applications as described under 'Rate and Timing of Applications' for TYPE RITE. When using fungicides, refer to respective labels for directions and precautionary statements.

Add a buffer to all alkaline spray water to reduce the pH below 8.

LIMITED WARRANTY AND DISCLAIMER

Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such use or the results to be obtained if not used in accordance with printed directions and established safe practice. 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.

Tween-20™ and Dithane M-45™ are registered trademarks of Rohm and Hass Company.

Triton X-100 is a registered trademark of Union Carbide Chemical and Plastics Company.

Benlate is a registered trademark of E.I. duPont de Nemours and Company Inc.

Polyram is a registered trademark of UAP Company.

Orthocide is a registered trademark of Tomen Agro.

Buffer-X is a registered trademarks of Helena Chemical Company

Registered and Manufactured By:

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