

3/8/99

Typy™

Plant Growth Regulator Solution

Active Ingredients

N-(phenylmethyl)-1H-purine-6-amine.....	1.8%	w/w
Gibberellins A ₄ A ₇	1.8%	w/w
Other Ingredients	96.4%	w/w
Total	100.0%	w/w

Store below 75°F (24°C)

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

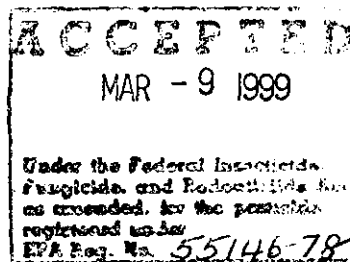
Agtrol International

Houston, Texas USA 77074

EPA Reg. No. 55146-XX

EPA Est. No : _____

Net Contents: 1 Gallon



PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

WARNING

Causes eye irritation. Do not get in eyes. Harmful if swallowed.

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:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks.
- Respiratory protection devices
- Protective eyewear
- Chemical-resistant apron when cleaning equipment, mixing or loading

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 from other laundry.

USER SAFETY RECOMMENDATIONS

User 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.

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 12 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:

- Long-sleeved shirt and long pants (or coveralls)
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

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.

GENERAL INFORMATION

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

TYPY 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, TYPY provides the following desirable effects:

- TYPY improves the shape of Delicious apples through elongation of fruit and development of more prominent calyx lobes.
- TYPY may increase weight of individual fruit on delicious and other varieties increasing the yield per tree. Some thinning may occur from the use of TYPY.
- TYPY 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.
- TYPY may be used on 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 frame work for early croppings.

APPLICATION INSTRUCTIONS FOR FRUIT DEVELOPMENT

RATE & TIMING

Single Application for Improved Type:

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

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

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

A single application of TYPY should be made 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 TYPY per acre in 50 to 200 gallons of spray mixture as a fine mist spray.

Split Applications for Improved Type and Size:

A split application may be utilized to improve typing and sizing responses. The first application should be made from early king bloom to the early stages of petal fall of the king bloom. The second application should be made 7 to 21 days later. Apply 0.5 to 1 pint of TYPY 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 TYPY applications three or more days apart. The first spray should be timed during the first flush of bloom. A second application should be made when the remainder of the tree canopy comes into bloom. The time between TYPY 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. The time interval between sprays should be lengthened should cool weather further prolong bloom. For the most efficient use of TYPY bloom progression within individual orchards should be assessed at least every 48 hours.

Apply TYPY twice as two concentrate sprays each containing 0.5-1 pint of TYPY in 100 gpa. The spray machine should be calibrated to deliver 100 gpa and nozzled to direct the spray mist to those portions of the tree canopy currently in bloom. An appropriate wetting agent should be included so as to insure even thorough coverage of open blossoms.

NOTE: Applications of TYPY to non-bearing pears and non-bearing sweet cherries may be made no later than one year prior to first anticipated fruit harvest.

MIXING INSTRUCTIONS

Add the required amount of TYPY to a spray tank about half-filled with water. Agitate while bringing the total volume of water to the required level. New solutions should be mixed only in a clean, empty spray tank, and used within 24 hours. A non-ionic wetting agent, e.g. Tween®-20, or Triton®X-100, may improve spray coverage and enhance absorption.

APPLICATION PRECAUTIONS

Use a properly calibrated and adjusted sprayer that insures uniform and complete coverage of all foliage and blossoms. Spray volume should be adjusted to tree size and density. Apply TYPY 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. TYPY is a plant growth regulator that must be absorbed by the plant to be effective, best performance can be expected with good absorption conditions and healthy, vigorous trees. Do not apply TYPY in more than 200 gallons of spray per acre.

Approximately 85% of the spray volume should be directed 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 TYPY. Applications in morning or evening may be preferable. Conditions favoring rapid drying of the spray deposit should be avoided. Rainfall within six hours after spraying may reduce activity of TYPY.

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

APPLICATION INSTRUCTIONS FOR LATERAL BRANCHING

AND TREE DEVELOPMENT

A single foliar application of TYPY or a TYPY-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 (.25-1pt. TYPY /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 TYPY/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 TYPY/5gal. of spray solution). For nursery stock treat after trees have reached a terminal height at which lateral branching is desired.

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

Uniformly apply TYPY 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

TYPY 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. TYPY 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 may cause some injury to tender shoot tips and fail to promote shoot growth from that point.

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

Uniformly apply the TYPY 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

TYPY may be applied in combination with plant nutrients and fungicides listed below:

Fungicides (Not for use in California)

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

A buffer should be added to alkaline spray water to reduce the pH below 8.

WARRANTY STATEMENT

Agtrol International warrants that the product conforms to the chemical description on the label and is reasonably fit for the purposes set forth on the label when used according to directions under normal use conditions. **THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.** This warranty does not extend to the handling or use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to seller and buyer assumes all risk of any such use.

Agtrol International

Houston, Texas

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