

Typy®

Plant Growth Regulator Solution

Active Ingredients

6-Benzyladenine..... 1.8% w/w

Gibberellins A₄A₇..... 1.8% w/w

Other Ingredients 96.4% w/w

Total 100.0% w/w

KEEP OUT OF REACH OF CHILDREN WARNING / AVISO

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

See inside Booklet for FIRST AID and PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA Reg. No. 55146-78

Net Contents
32 Fl. Oz.
(946 mL)

Manufactured for
Nufarm Americas Inc.
AGT Division
11901 S. Austin Avenue
Alsip, IL 60803



1 91662 01218 7



Nufarm

Grow a better tomorrow.

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 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.
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, then give artificial respiration, preferably mouth-to-mouth, if possible.• Call a poison control center or doctor for further treatment advice.

HOTLINE NUMBER

Have the container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes substantial but temporary eye injury. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist.

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.

All applicators, handlers, mixers and loaders must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Dust / mist filtering respirator (MSHA/NIOSH approval number prefix TC-21) or a NIOSH approved respirator with any R, P or HE filter
- Protective eyewear
- Chemical-resistant apron when cleaning equipment, mixing or loading
- For overhead exposure, wear chemical resistant headgear

Engineering Control Statement

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.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for “mixers and loaders” and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

USER SAFETY RECOMMENDATIONS

User 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

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 by cleaning of equipment or disposal of equipment washwaters or rinsate.

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 / 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 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 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:

- Long-sleeved shirt and long pants (or coveralls)
- Chemical resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear
- Dust / mist filtering respirator (MSHA/NIOSH approval number prefix TC-21) or a NIOSH approved respirator with any R, P, or HE filter

This product is a plant growth regulator for use on apples, non-bearing pears, non-bearing sweet cherries, lilies, and poinsettias.

USE ON APPLES, NON-BEARING PEARS, AND NON-BEARING SWEET CHERRIES

PRODUCT INFORMATION & RESTRICTIONS

When applied at specific spray timing and concentration, this product provides the following desirable effects:

- Improves the shape of Delicious apples through elongation of fruit and development of more prominent calyx lobes.
- Often increases weight of individual fruit on Delicious and other apple varieties increasing the yield per tree. Some thinning occasionally occurs from the use of this product.
- Increases lateral bud break and shoot growth and improves branch angles on most non-bearing apple varieties, including nursery stock. This effect will provide a better tree framework for early cropping.
- Increases lateral bud break and shoot growth, improves branch angles, and provides a better tree frame work for early cropping when used on non-bearing pears and non-bearing sweet cherry trees, including nursery stock.

Thorough spray coverage is needed for effective results. All parts of the plant must receive coverage. On bearing trees, direct approximately 85% of the spray volume into the upper 2/3 of the trees.

Applications of this product made under slow drying conditions (cool to warm temperatures, medium to high relative humidity, and no wind) will improve absorption by the plant. When daytime conditions are not conducive to slow drying conditions, make nighttime application.

NOTES:

- Do not apply this product through any type of irrigation system.
- Do not apply this product when air temperatures are lower than 40°F or greater than 90°F.
- Do not mix with water above pH 8.5. Best performance is obtained when using water with a pH near neutral (pH 7.0).
- Do not apply when rainfall or overhead irrigation is expected within 6 hours of application.

APPLICATION INSTRUCTIONS FOR FRUIT DEVELOPMENT

RATE & TIMING

Single Application for Improved Type

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

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

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

Make a single application 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 product per acre in 50 to 200 gallons of spray mixture as a fine mist spray.

Split Applications for Improved Type and Size

Make a split application to improve typing and sizing responses. Make the first application from early king bloom to the early stages of petal fall of the king bloom. Make a second application 7 to 21 days later. Apply 0.5 to 1 pint of product per acre in 50 to 200 gallons of spray mixture in each application. Do not, however, exceed the maximum directed 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 applications three or more days apart. Make the first spray during the first flush of bloom. Make a second application when the remainder of the tree canopy comes into bloom. The time between applications varies 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. Extend the time interval between sprays if cool weather further prolongs bloom. For the most efficient use of this product, bloom progression within individual orchards must be assessed at least every 48 hours.

Apply twice as two concentrate sprays each containing 0.5 to 1 pint of this product in 100 GPA. Calibrate the spray machine to deliver 100 GPA and direct the nozzle so that spray mist targets those portions of the tree canopy currently in bloom. Include an appropriate wetting agent so as to ensure even thorough coverage of open blossoms.

NOTE: Apply 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 this product 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. A non-ionic wetting agent, e.g. Tween®-20, or Triton® X-100, can improve spray coverage and enhance absorption.

APPLICATION PRECAUTIONS

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

Do not spray the tank mixes on any low vigor trees or trees under stress as from drought, low fertility, winter injury, etc.

This product 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 this product 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 this product. Applications in morning or evening are preferable. Avoid applications when conditions favor rapid drying of the spray deposit. Rainfall within six hours after spraying may reduce activity of this product.

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

APPLICATION INSTRUCTIONS FOR LATERAL BRANCHING AND TREE DEVELOPMENT

Make a single foliar application or a spot application of a mixture with latex paint to apple, non-bearing pear, and non-bearing sweet cherry trees, including nursery stock, to increase lateral bud break and shoot growth, improve branch angles, and provide a better tree framework for early cropping.

FOLIAR APPLICATIONS

Use foliar applications to increase 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 to 500 ppm (0.25 to 1.0 pt. of product / 5 gal. of spray solution). For orchard trees apply at 1 to 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 to 1000 ppm (0.5 to 2.0 pt of product / 5 gal. of spray solution). For orchard trees apply at 1 to 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 to 1000 ppm (0.5 to 2.0 pt of product / 5 gal. of spray solution). For nursery stock treat after trees have reached a terminal height at which lateral branching is desired.

Mixing Order: A buffered wetting agent, e.g. Buffer X® or non-ionic wetting agent, e.g., Tween®-20, Triton® X-100, must be added to the tank at a rate of 0.2 to 0.3% (1 to 2 oz./5 gal.) prior to the addition of this product. Do not exceed a final spray solution pH of 8.

Uniformly apply this product 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 to 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 to 10 gallons of spray mixture applied with a pressurized hand sprayer will treat 200 to 300 non-bearing orchard trees 1 to 4 years old.

LATEX APPLICATIONS

Apply a mixture of this product and latex paint to one year old wood on apples and orchard grown non-bearing sweet cherries to increase bud break and branch angles.

APPLICATION RATES FOR LATEX

Apples (Nursery and Orchard) and Non-bearing Sweet Cherries (Orchard Only): Apply 5000 to 7500 ppm (0.2 to 0.33 pt. of product 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 can cause injury to tender shoot tips and fail to promote shoot growth from that point.

Mixing Order: Add a buffered or non-ionic wetting agent to the latex paint at the rate of 0.5 to 1.0% (0.1 to 0.15 oz. per pint of paint) prior to the addition of TYPY Plant Growth Regulator Solution to the mixture. The addition of a wetting agent improves the dispersion of the product in the latex paint and also improves wetting and absorption through the waxy cuticular layer of the bark surface.

Uniformly apply the final product/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

This product 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 are compatible with this product when tank mixed at the timing associated with bloom applications as described in the "RATE AND TIMING" section above. When using fungicides, refer to respective labels for directions and precautionary statements.

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

INFORMATION FOR USE ON LILIES AND POINSETTIAS

This product may be used on Easter lilies (*Lilium longiflorum*), LA Hybrid lilies (*Lilium longiflorum*-Asiatic crosses), Oriental lilies, and poinsettias (*Euphorbia pulcherrima*) to 1) delay leaf yellowing and necrosis of lower leaves when applied to lower leaves and 2) delay flower senescence when applied to flower buds. This product does not reverse leaf yellowing and flower senescence.

SPRAY MIXTURE PREPARATION

Add the required amount of this product 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. NOTE: For use on lilies and poinsettias, do not apply this product in tank mixtures with any other products.

Rate Conversion Table

Part per Million GA ₄ A ₇ /6-BA (ppm)	ml/Liter	ml/Gallon	Fluid Ounces/ Gallon
1/1	0.06	0.2	0.007
5/5	0.3	1.1	0.04
10/10	0.6	2.1	0.07
25/25	1.4	5.3	0.18
50/50	2.8	10.5	0.36
75/75	4.2	15.8	0.53
100/100	5.5	21.0	0.71

APPLICATION INSTRUCTIONS

The optimum application rate depends upon species, variety, plant structure, leaf surface, and also physical and environmental variables. Growers must conduct trials with small numbers of plants before treating commercial crops. Start at the lower rates and work up to a rate that gives the desired effect.

- Apply only as a directed foliar spray.
- Apply using conventional spraying equipment at low to medium pressures for complete coverage.
- Typically apply 2 quarts of spray solution uniformly over 100 ft² of bench area.
- Preferably apply the product in the morning, late afternoon or evening when plants are not under drought stress.
- Do not apply to plants under stress from water, pest, or nutritional disorders.
- Do not apply more than 15 ml of spray solution per plant.
- Do not apply over-rate, to the soil, or on young foliage as this may cause stem elongation.
- Do not apply in tank mixtures with any other product.
- Do not reuse soil from plants treated with this product.
- Be careful in measuring, diluting, and applying this product.

PREVENTION OF LOWER LEAF YELLOWING IN EASTER AND LA HYBRID LILIES

EARLY AND MID-SEASON APPLICATIONS

To reduce yellowing of glasshouse produced plants:

Apply 5/5 to 10/10 (GA₄A₇/6-BA) as a directed spray to the lower leaves only, 7 to 10 days before the visible bud stage is reached.

Make a second application 7 to 10 days after the visible bud stage for complete season control.

Do not allow coverage of immature leaves as this may result in unwanted stem elongation.

LATE-SEASON APPLICATION

To reduce leaf yellowing and prolong flowering during and after shipment:

Apply 100/100 (GA₄A₇/6-BA) when the first bud is at least 8 cm long and there is less than 14 days to readiness for shipping the crop or removal to the cooler. Apply to the foliage and flower buds.

This treatment provides up to 14 days protection from yellowing and 25% longer flower life.

Do not treat earlier than 14 days before shipping or removal to the cooler as this may result in inadequate protection.

Do not treat lilies with small buds as this may result in unwanted stem elongation.

PREVENTION OF LOWER LEAF YELLOWING IN ORIENTAL LILIES

EARLY AND MID-SEASON APPLICATIONS

To reduce yellowing of glasshouse produced plants:

Apply 100/100 (GA₄A₇/6-BA) as a directed spray to the lower leaves only, 7 to 10 days before or after the visible bud stage is reached.

The first application gives up to 21 days protection. Make a second application no earlier than 14 days before shipping or removal to the cooler for complete season control.

LATE-SEASON APPLICATION

To reduce leaf yellowing and prolong flowering during and after shipment:

Apply 100/100 (GA₄A₇/6-BA) when there is less than 14 days to readiness for shipping the crop or removal to the cooler. Apply to the foliage and flower buds.

Do not treat earlier than 14 days before shipping or removal to the cooler as this may result in inadequate protection.

Protection lasts for up to 14 days after removal to the cooler.

APPLICATION INSTRUCTIONS FOR LATE SEASON TREATMENT TO PROMOTE BRACT EXPANSION ON POINSETTIA

Apply to poinsettia (*Euphorbia pulcherrima*) 7 to 14 days before anthesis to increase bract size. This product may also be used to promote bract expansion on plants treated with late season foliar applications of certain growth retardants.

Bract coloring on red varieties may appear less intense immediately following treatment with this product. However, over time the bracts should develop a more intense color. Bracts of white-colored varieties have been shown to develop a “whiter” appearance following a late season application. Use of this product may also result in increased plant height.

Apply in sufficient volume to thoroughly and uniformly wet bracts. The foliage of poinsettias often develops a waxy, spray repellent cuticle. Therefore, the use of a high quality wetting agent approved for use on poinsettia is required when applying this product. Consult the adjuvant label or manufacturer for rates, crop tolerance, and safety information when used in a mixture with this product. Perform a compatibility test for mix components (i.e., jar test) before mixing with any other product.

USE RATES

A number of factors, including growing conditions and plant cultivar, may result in treatment variability. Therefore, before commercial use, first time users of this product should conduct initial trials on a small number of plants for each variety starting with a 3/3 ppm rate. If a desired effect is not achieved or if previous experience warrants, rates of up to 10/10 ppm may be applied.

Rate Conversion Table

GA ₄ A ₇ /6-BA (ppm)	ml/Liter	ml/Gallon
3/3	0.18	0.6
5/5	0.3	1.1
10/10	0.6	2.1

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 HANDLING:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic containers are also disposable by incineration, or, if allowed by state and local authorities, by burning. If burned stay out of smoke.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of the directions for use, the warranty disclaimers, or limitations of liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded.

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