



Plant growth regulator solution for use on apples, non-bearing pears, and non-bearing sweet cherries

**Active Ingredients:**

Gibberellins A <sub>4</sub> A <sub>7</sub> .....	1.8%
N-(phenylmethyl)-1H-purine-6-amine .....	1.8%
<b>Other Ingredients:</b> .....	<b>96.4%</b>
<b>Total:</b> .....	<b>100.0%</b>

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

EPA Reg. No. 62097-6-82917

EPA Est. No. 39578-TX-001

**NET CONTENTS: 0.5 gallons (1.8 litres)**

**FIRST AID**

IF SWALLOWED	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything to an unconscious person.</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Poison Control Hotline at 1-800-222-1222 for emergency medical treatment information 24 hours a day, seven days a week.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

**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 selection chart.

**Applicators and other handlers must wear:**

- \* Long-sleeved shirt and long pants.
- \* Chemical-resistant gloves.
- \* Protective eyewear.
- \* Socks and shoes.
- \* Chemical-resistant apron when cleaning equipment, mixing or loading.

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

### **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 the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS**

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 or rinsate. Avoid drift on to non-target plants.

### **PHYSICAL OR CHEMICAL HAZARDS**

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

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

### **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 the label about personal protective equipment (PPE) and restricted entry intervals. The requirements in this box only apply to uses of this product covered by the Worker Protection Standard.

Do not enter or allow 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:

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

### **PRODUCT INFORMATION**

- Perlan is a plant growth regulator for use on apples, non-bearing pears, and non-bearing sweet cherries.
- Perlan improves the shape ('typiness') of Delicious apples by increasing the development of calyx lobes and elongating the fruit.
- Perlan may increase fruit weight and yield in apples.
- Perlan can be used to increase lateral bud break on non-bearing trees.
- Perlan may cause some fruit thinning.

### **SPRAYING GUIDE FOR FRUIT DEVELOPMENT**

When used to improve the type and size of fruit, apply Perlan in a single or split spray program.

#### **All states except Washington**

##### Single application

Make one application of 1–2 pints between early king bloom and early petal fall of side blossoms in 50–200 gallons of water/acre.

#### **Washington only**

##### Single application

Make one application of 1–2 pints between early king bloom and early petal fall of king blossoms in 50 – 200 gallons of water/acre.

##### Split applications

Make the first application of 0.5–1.5 pints between early king bloom and early petal fall of king blossoms in 50–200 gallons of water/acre. Make the second application of 0.5-1 pint 7–21 days later in 50–200 gallons of water/acre.

*Split applications in areas where bloom is prolonged*

Make the first application of 0.5–1 pint during the first flush of bloom in 100 gallons of water/acre. Make the second application of 0.5-1 pint 3–7 days later when the rest of the tree comes into bloom in 100 gallons of water/acre.

- Apply all sprays as a fine mist to ensure maximum coverage and spray retention on flowers and foliage. Do not apply in water volumes greater than 200 gallons/acre.
- Direct 85% of spray to the upper  $\frac{2}{3}$  of the trees.
- Addition of a non-ionic wetting adjuvant may improve coverage and efficacy.
- Apply in conditions conducive of slow drying.
- Do not apply if air temperature is less than 40°F or more than 90°F.
- Do not apply more than 2 pints/acre/year.
- Prepare spraying solution using clean water and apply within 24 hours.
- Apply Perlan using conventional spray application machinery or as otherwise directed in this label. Perlan must not be applied using irrigation equipment.
- pH of the applied spray must not be higher than 8. Use a buffering agent if necessary.
- Efficacy of Perlan may be reduced if rain occurs within 6 hours of application.
- Perlan may be applied in fruit crops in tank mixture with Benlate<sup>®</sup>, Dithane<sup>®</sup>, Orthocide<sup>®</sup>, Polyram<sup>®</sup>, ferbam, thiram and wettable sulfur. Always refer to the partner product label when applying Perlan in tank mixtures and follow all precautions and directions given.

**SPRAYING GUIDE FOR FEATHERING AND TREE DEVELOPMENT**

Application of Perlan can be used to increase lateral bud break and shoot growth to produce a better tree framework in young trees.

*Foliar application to nursery and orchard apples*

Make one application of 125–500 ppm ( $\frac{1}{4}$ -1 pint/5 gallons of water) when orchard trees have 1–3 inches of new growth or nursery trees have reached the height where branching is required.

*Foliar application to nursery and orchard pears or nursery sweet cherries*

Make one application of 250–1000 ppm ( $\frac{1}{2}$ -2 pints/5 gallons of water) when orchard trees have 1–3 inches of new growth or nursery trees have reached the height where branching is required.

- Add a non-ionic or buffered wetting adjuvant to the spray solution at 0.2%–0.3% of water volume.
- Apply using a hand held sprayer and ensure thorough wetting of foliage and bark.
- pH of the applied spray must not be higher than 8. Use a buffering agent if necessary.

*Latex application to nursery and orchard apples or non-bearing orchard sweet cherries*

Apply 5000–7500 ppm ( $\frac{1}{5}$ - $\frac{1}{3}$  pint per pint of latex paint) to one-year-old wood in the spring when terminal buds begin to swell. Apply with a brush or sponge to achieve thorough coverage of bark.

- **Do not apply after buds break.**
- Add a non-ionic or buffered wetting adjuvant to the paint solution at 0.5%–1.0% of water volume.
- Apply to one-year-old wood only.

**APPLICATION INSTRUCTIONS FOR IMPROVING FRUIT SET IN APPLES CAUSED BY FREEZE DAMAGE (all approved states except California)**

Perlan can be used to increase fruit set following frost by stimulating the development of parthenocarpic fruit. Make a single application of Perlan at a rate of 1-2 pints in 50-200 gallons of water per acre prior to or within 24 hours following a frost or freeze event, when the majority of the crop is between early bloom and full bloom.

- The purpose of this treatment is to negate the reduction in fruit set caused by frost. Plant injury, abnormally shaped fruit, lack of performance or other unintended consequences may result from the use of this product.
- Use of Perlan can result in an increase in fruit 'typiness' by increasing the development of calyx lobes and elongating the fruit.

- Parthenocarpic fruit may be irregular in shape and/or size and more likely to develop disorders in cold storage compared to seeded fruit.

#### **STORAGE AND DISPOSAL**

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

Pesticide Storage: Keep containers tightly closed when not in use. Store below 75°F.

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

Container Handling: Non-refillable container. Do not reuse or refill this container. 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 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. Then offer for recycling or reconditioning, if available, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### **WARRANTY DISCLAIMER AND LIMITATION OF LIABILITY**

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It is impossible to eliminate all risks associated with this Product. Plant injury, lack of performance, or other unintended consequences may result because of factors such as abnormal weather conditions, use of the Product other than in strict accordance with this label's instructions, presence of other materials, the manner of application or other factors, all of which are beyond the control of FINE or the seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

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