

refine[®] 6.25L

A hormone type product for thinning apples, citrus, olives, pears and for control of pre-harvest drop of apples and pears

Active Ingredient: 1-Naphthaleneacetic Acid, Potassium Salt*	6.25%
Other Ingredients:	93.75%
Total:	100.00%

*Equivalent to 5.18% of 1-Naphthaleneacetic Acid or 200 grams (0.44 lbs) per gallon

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Reg. No. 62097-39-82917

EPA Est. No. 39578-TX-001

Net Contents: 1 gallon (3.78 liters)

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 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.	

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Wear long-sleeved shirt and long pants, shoes and socks.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are made of any waterproof material.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material (except pilots)
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash thoroughly with soap and water after handling and 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 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. **DO NOT** contaminate irrigation ditches or water used for irrigation or domestic purposes. Do not apply when weather conditions favor drift from treated areas.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labelling 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 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 including plants, soil or water is:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves including barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or Viton

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labelling.

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 requirement 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.

DO NOT use in a greenhouse.

PRODUCT INFORMATION

Refine® 6.25L is a plant growth regulator for use in fruit production. The response of fruit trees to an application may vary depending on factors including variety, climatic factors, tree vigor, etc. Users need to consider these factors before choosing the desired rate and timing for application. Always apply Refine® 6.25L using sufficient water to ensure complete and uniform spray coverage.

Application can be made in the range of 50-400 gallons of water per acre. The appropriate spray volume is determined by the type of equipment used, tree size and density of foliage. Consider all variables in rate and application timing for each variety and orchard location when establishing the spray program.

Refine® 6.25L thins the fruit of apples and pears during heavy bearing years resulting in increased fruit size. The use of Refine® 6.25L also promotes adequate return bloom the following season.

Promotion of return bloom in apples is beneficial in situations including:

- Biennial bearing cultivars during an “off year”
- Young trees that are slow to bear fruit.
- Mature trees that are likely to produce only a limited number of blossoms in the following year.

Refine® 6.25L can enhance return bloom of certain apple cultivar including: “Fuji”, “Jonagold”, “Mutsu”, “Braeburn” and “Golden Delicious”.

Refine® 6.25L can also be used to control pre-harvest drop of apples and pears leading to higher yields and a reduction of losses from factors including windfall and knockdown.

Refine® 6.25L, when diluted with the specified amount of water, is physically compatible with a wide range of commonly used spray products. However, evaluating the full ranges of compatibilities under all conditions is impossible. Therefore, it is advised that users pre-mix a small quantity of a desired tank mix and observe for possible adverse changes (settling out, flocculation, etc.). Avoid mixtures of several materials and very concentrated spray mixtures. Observe all limitations and precautions on labeling of all products used in any tank mix. It is advised that you consult your local Extension Pomologist for guidance or when tank mixing any product you have not previously used with Refine® 6.25L. In addition, always test spray a small area prior to the general use of a tank mix that you have not previously used.

Table 1. Refine® 6.25L spray preparation chart for dilute application.

Note: All uses of ppm refers to the active ingredient (a.i.) not the formulated product.

Rate (ppm)	Gallons of spray per acre			
	100	150	300	400
2	0.48 fl oz	0.72 fl oz	1.4 fl oz	1.9 fl oz
5	1.2 fl oz	1.8 fl oz	3.6 fl oz	4.8 fl oz
7.5	1.8 fl oz	2.7 fl oz	5.4 fl oz	7.2 fl oz
10	2.4 fl oz	3.6 fl oz	7.2 fl oz	9.6 fl oz
15	3.6 fl oz	5.4 fl oz	10.8 fl oz	14.4 fl oz
20	4.8 fl oz	7.2 fl oz	14.4 fl oz	19.2 fl oz

APPLICATION INSTRUCTIONS

Chemical thinning - apples:

Due to differences in varieties, climatic factors before and after application, tree vigor and fruit set and fruit size at time of application, the application rates can range from 2-20 ppm (see Table 1) and application timing can range from full bloom petal fall to 30 days after full bloom. Limit higher concentrations to vigorous trees with high fruit set potential. Reduced concentrations are recommended on weaker, less vigorous trees with lower fruit set potential.

Use 2-5 ppm when a surfactant (wetting agent) is added. Use surfactant (wetting agent) according to manufacturer's guidelines, but not more than 1 pint per 100 gallons of spray. Treat mid-season to late blooming varieties including Red Delicious, Golden Delicious, Fuji, Gala, Granny Smith and

Romes 5-21 days after full bloom depending on locality and other factors. For concentrate spray, use Refine® 6.25L at the rate of 2.0-4.0 fl oz per acre. Always apply Refine® 6.25L using sufficient water to ensure complete and uniform spray coverage.

Thinning sprays are most effective when the king apple fruitlets are between 5-10 mm in diameter. During cool springs, delay application as necessary until the largest fruits are 7-10 mm in diameter and forecasted daytime temperatures are likely to rise above 60°F within the next 5 days. The preferred application temperature is between 70°F and 75°F. Applications are not advised below 60°F or above 80°F. When daytime temperatures exceed 85°F, over-thinning may occur. Good thinning can be obtained under the latter conditions with lower rates of chemicals.

Tank mix combinations of Refine® 6.25L applied at concentrations between 5 and 7.5 ppm plus Carbaryl have been shown to effectively thin early maturing, heavy-setting varieties as well as hard-to-thin apple varieties. A petal fall application of Refine® 6.25L followed 7-10 days later by an application of Refine® 6.25L (5-7.5 ppm) + Carbaryl (0.5 lbs ai/100 gals) has improved thinning of hard-to-thin apple varieties. **DO NOT** mix Refine® 6.25L with any product containing a label restriction against such mixing. Always apply in accordance with the limitations and precautions of the most restrictive label.

DO NOT use Refine® 6.25L on early season varieties (those that ripen before Macintosh) including Yellow Transparent, Early Williams Red and Oldenburg since severe injury or over-thinning may occur.

To Promote Return Bloom on Apples in Following Year:

Rate and Timing: Apply Refine® 6.25L at 1.2 to 4.8 fl oz (5-20 ppm) per acre six to eight weeks after petal fall in sufficient water to ensure thorough coverage based on tree row volume. Results may be improved with repeat applications of Refine® 6.25L at 1.2 to 4.8 fl oz per acre made at 7 to 14 day intervals.

Caution: Even when used at low rates, applications of Refine® 6.25L can result in reduced fruit quality including early ripening, water core or leaf drop in certain varieties which are sensitive to Refine® 6.25L, (including Early MacIntosh or other early summer varieties). Application of Refine® 6.25L at rates higher than 4.8 fl. oz. per acre can also affect fruit quality and tree vigor on any variety and growers must exercise caution.

Chemical thinning - pears (Bartlett, Bosc and Comice):

Apply Refine® 6.25L at a spray concentration of between 10-15 ppm for dilute spray in up to 400 gallons of water per acre or at a rate of 8-12 fl oz of product per acre for concentrated spray (2.4 fl oz of Refine® 6.25L in 100 gallons makes 10 ppm of spray solution). Apply Refine® 6.25L once per year 15-28 days after full bloom with a labeled surfactant (wetting agent). Always apply Refine® 6.25L using sufficient water to ensure complete and uniform spray coverage. Refine® 6.25L may not adequately thin Bartlett pears in some seasons. The preferred application temperature is between 70°F and 75°F. Applications are not advised below 60°F or above 80°F.

Chemical thinning - olives:

Spray Refine® 6.25L when young fruits are $\frac{1}{8}$ to $\frac{3}{16}$ inch in diameter or 12-18 days after full bloom. Proper application timing is critical. Thinning is effective on all varieties except Sevillano. **DO NOT apply during bloom unless complete removal of fruit is desired.** Apply a solution of 120 ppm by adding 28.8 fl oz of Refine® 6.25L and a labeled surfactant (wetting agent) to 100 gallons of water 12 days after full bloom. Adjust the spray concentration upward by 10 ppm for each day following full

bloom during the thinning period. Severe over-thinning may result from application to trees during hot and dry conditions.

Chemical thinning - oranges, tangerines (mandarins), tangelos and tangors:

Spray Refine® 6.25L at the rate of 100-500 ppm. The degree of thinning obtained with Refine® 6.25L is variable and highly dependent on temperature. Severe over-thinning may result from application to trees during hot, arid dry conditions. **DO NOT apply Refine® 6.25L to "non-thrifty" trees.** Users must determine a suitable concentration and time of application for specific cultivars and location. Concentration in the 100-150 ppm ranges are recommended with applications being made when the fruits are in an early stage of development (5-20 mm in diameter) and near the normal period of "June drop" (in Florida the period of natural drop occurs in May). Expect higher thinning activity during hot weather. Therefore, use lower concentrations during hot weather (85°F-95°F). The effectiveness of Refine® 6.25L lessens at temperatures below 85°F. Ensure the entire fruiting area of the tree receives thorough coverage of the spray solution. **DO NOT** apply more than 1 application of Refine® 6.25L per year. **DO NOT** use on trees where both young and mature fruit are present. **DO NOT** apply within 150 days of harvest.

Control of pre-harvest fruit drop - apples:

Apply Refine® 6.25L at 7-14 days prior to harvest. Application timing is dependent on the maturation of the crop, requiring that separate sprays be applied to early and late maturing varieties. **DO NOT** make more than two applications of Refine® 6.25L per season and do not **DO NOT** delay picking beyond optimum maturity. **DO NOT** spray within 2 days of harvest. Refine® 6.25L is effective in 3-4 days after application and controls drop for 2 weeks.

Ground Application: Apply 16-32 fl oz of Refine® 6.25L per acre in sufficient water to ensure good coverage.

Aerial Application: Use 16-32 fl oz of Refine® 6.25L in at least 5 gallons of water per acre. Utilize aircraft spray equipment that gives thorough coverage to all portions of the tree canopy. Apply Refine® 6.25L only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting. For dense foliage and heavy fruiting, higher rates may be necessary. **DO NOT** apply within 2 days of harvest.

Control of pre-harvest fruit drop - pears (Bartlett, Bosc, and D'Anjou):

Apply Refine® 6.25L to pears 5-7 days prior to harvest. Application timing is dependent on the maturation of the crop, requiring that separate sprays be applied to early and late maturing varieties. **DO NOT** make more than 2 applications and **DO NOT** delay picking beyond optimum maturity. Refine® 6.25L is effective in 3-4 days after application and controls drop for 2 weeks. **DO NOT** apply within 2 days of harvest.

Ground Application (except California): Apply 8-16 fl oz of Refine® 6.25L per acre in sufficient water to ensure good coverage. When Bartlett and Bosc are inter-planted, spray Refine® 6.25L only once per season. Use a maximum of 16 fl oz of product per acre per season on Bartlett to prevent premature ripening.

Ground Application (California): Apply 8-24 fl oz of Refine® 6.25L per acre in sufficient water to ensure good coverage. When Bartlett and Bosc are inter-planted, spray Refine® 6.25L only once per season. Use a maximum of 24 fl oz of product per acre per season on Bartlett to prevent premature ripening.

Aerial Application (except California): Use 8-16 fl oz of Refine® 6.25L in at least 5 gallons of water per acre. Utilize aircraft spray equipment that gives thorough coverage to all portions of the tree canopy. Apply Refine® 6.25L only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting. For dense foliage and heavy fruiting, higher rates may be necessary. **DO NOT** apply within 2 days of harvest.

Aerial Application (California): Use 8-24 fl oz of Refine® 6.25L in at least 5 gallons of water per acre. Utilize aircraft spray equipment that gives thorough coverage to all portions of the tree canopy. Apply Refine® 6.25L only when weather conditions favor minimal spray drift. Use lower rates for normal foliage and fruiting. For dense foliage and heavy fruiting, higher rates may be necessary. **DO NOT** apply within 2 days of harvest.

Preserving ornamental holly boughs:

To delay leaf drop of holly boughs, make a solution containing 8-16 fl oz of Refine® 6.25L in 100 gallons of water (equal to 33-66 ppm). Dip holly boughs in the treated solution immediately after cutting. Allow excess solution to drain from boughs. **DO NOT** soak or leave boughs in dip solution. Replenish dip solution as needed. To maintain the effectiveness of Refine® 6.25L, mix and use a new solution every 3-4 days.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Keep container tightly closed when not in use. Store in a cool, dry place. Protect from temperatures below 32°F. This product may freeze. If freezing should occur, thaw and shake gently to unify the product. **DO NOT** store diluted product.

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: 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 including 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.

To the extent consistent with applicable law: 1) FINE disclaims any liability whatsoever for special, incidental or consequential damages resulting from the handling or use of this Product and 2) FINE's liability under this label shall be limited to the amount of the purchase price or, at the election of FINE, the free replacement of the Product.

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