



## SUPPLEMENTAL LABEL

Plant growth regulator for thinning and control of pre-harvest drop of apples for suppression of calcium disorder in apples in current year, and for promoting return bloom of apples the following year.

This supplemental labelling expires on March 31, 2026, and must not be used or distributed after this date.

<b>Active Ingredient:</b> 1-Naphthaleneacetic Acid, Sodium Salt*	3.5%
<b>Other Ingredients:</b>	96.5%
<b>Total:</b>	100.0%

\*Contains 0.3 lb. ai. (equivalent to 3.1% of 1-Naphthaleneacetic acid or 122.5 grams (0.27 lb.)) per gallon.

EPA. Reg. No. 62097-48-82917

EPA Est. No. indicated by first letter of batch number on this package (E) 39578-TX-001

(C) 70815-GA-001

Net Contents: 1 gallon (3.78 liters)

## KEEP OUT OF REACH OF CHILDREN CAUTION

### 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.

### **FOR SUPPRESSION OF CALCIUM DISORDERS IN FRUIT IN THE CURRENT YEAR AND PROMOTE RETURN BLOOM ON APPLE TREES THE FOLLOWING YEAR (all approved states except California):**

As the application timings and application rates are similar for both of these uses in apples, **DO NOT** make product applications for both uses at the same time.(i.e. If you are applying Refine 3.5L for suppression of calcium disorders you will not need to make similar applications for promotion of return bloom & vice versa.

### **Promotion of Return Bloom:**

Refine® 3.5L can effectively promote return bloom during an off year in young trees that are slow to bear or on mature trees that are likely to produce only a limited number of blossoms in the following year. Refine® 3.5L acts as a return bloom enhancer to certain apple varieties including, but not limited to: *Fuji*, *Jonagold*, *Mutsu*, *Braeburn* and *Golden Delicious*. The application rate range is between 2 to 8 fl. oz. (0.0047-0.0188 lb. ai.) per acre, applied six to eight weeks after petal fall in sufficient water to ensure good coverage based on tree row volume. Results may be improved with repeat applications of 2 to 8 fl. oz. (0.0047-0.0188 lb. ai.) per acre made at 7 to 14 day intervals. These applications made during the summer months, may also provide an additional benefit of aiding pre-harvest fruit drop in certain varieties of apples (see above).

### **Suppression of Calcium Disorders in Fruit**

Research has indicated that applications of NAA, the active ingredient in Refine 3.5L, can reduce calcium disorders in certain apple varieties such as Bitter Pit on 'Honeycrisp'. For Suppression of Calcium Disorders of Apple, make 2-3 applications of Refine 3.5L at 5-10 ppm (2.0-4.0 fl oz, 0.0047-0.0094 lb. ai.) per 100 gallons at 2-week intervals starting at 30 days after full bloom.

**Advisory:** Even when used at low rates, reduced fruit quality including early ripening or water core or leaf drop can result on certain varieties which are sensitive to Refine® 3.5L, (including *Early MacIntosh* or other early summer varieties). Application of Refine® 3.5L at rates higher than 8 fl. oz. (0.0188 lb. ai.) per acre can also affect fruit quality and tree vigor on any variety and growers should exercise caution.

### **Application Notes:**

- Maintain final spray solution between pH 5-7. A buffer or acidifier may be added if necessary to bring final spray solution pH between 5-7.
- A standard spray adjuvant, preferably a non-ionic surfactant, may be used to improve coverage and performance consistency. Follow the adjuvant manufacturer's directions for rates to be used. Grower must be familiar with the adjuvant chosen to avoid possibility of increasing potential russetting from the applications.
- Direct applications to the whole tree.
- Research has indicated the higher end of the rate range may be required in Western States in the US.

Produced by:  
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