



# LIQUI-STIK CONCENTRATE

## GROWTH REGULATOR

Intended for Agricultural or Commercial Use Only

<b>ACTIVE INGREDIENT:</b>		<b>BY WT.</b>
1-Naphthaleneacetic Acid as the ammonium salt*	.....	5.68%
<b>OTHER INGREDIENTS:</b>	.....	94.32%
	<b>TOTAL</b>	<b>100.00%</b>

\*Equivalent to 5.2% 1-Naphthaleneacetic acid or 200 grams (0.44 pound) per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

See below for additional precautionary information.

FIRST AID	
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 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>
<p><b>FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

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EPA EST. NO. 5481-CA-1

NET CONTENTS 1.0 GAL (3.78 L)

052217 V1D 05P17

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Harmful if inhaled. Do not breathe vapor or spray mist. Wash 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:**

**All mixers, loaders, applicators, and other handlers must wear:**

- Long-sleeved shirt and long pants,
- Shoes plus socks, and
- Chemical-resistant gloves made out of any waterproof material.

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.

**Engineering controls statements:**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with 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.

**USER SAFETY RECOMMENDATIONS**

**Users 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. 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 when disposing of equipment washwater 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 agency responsible for pesticide regulation.

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.

**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 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 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, such as plants, soil, or water, is:

- Coveralls,
- Shoes plus socks,
- Chemical-resistant gloves made of any waterproof material,
- Protective eyewear.

**Spray Drift Management**

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, aerial, airblast) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

**Wind speed restriction:**

Do not apply when wind speeds are greater than 10 miles per hour at the application site.

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### **Specific language for orchard air blast:**

Sprays must be directed into the crop canopy.

Outward pointing nozzles should be turned off at row ends and when spraying outer rows.

**For ground based applications and aerial applications:** use only medium or coarser spray droplets (or nozzles) according to ASABE (S572) definition for standard nozzles.

### **Application Restrictions:**

The minimum re-application interval should not be less than 5 days. For broadcast use, the maximum application rate is 32.0 fluid ounces (or 0.11 pound 1-NAA acid equivalent) per acre of this product for all uses, except olive trees which may be treated up to 96.0 fluid ounces (0.33 pound 1-NAA acid equivalent) per application per acre.

For all crops, the maximum product use per year or per crop cycle is not to exceed 96.0 fluid ounces of this product (0.33 pound 1-NAA acid equivalent) per acre.

### **USE DIRECTIONS FOR APPLES AND PEARS**

This product serves to control pre-harvest drop of apples and pears, leading to larger harvest and reducing losses from windfall and knockdown. Spray trees thoroughly wetting all fruit stems and adjacent leaves. Make applications approximately 7 to 14 days before harvest for apples and 5 to 7 days before harvest for pears. Do not spray within 2 days of harvest. This product becomes effective in 2 to 3 days after application and controls drop for 10 days to 4 week's (less, for McIntosh variety) depending on weather conditions. Do not make more than 2 applications and do not delay picking beyond optimum maturity. Do not exceed 96.0 fluid ounces of this product per acre per year or crop cycle.

**Ground Application:** this product can be applied through any conventional spraying equipment.

### **For Apples:**

To prevent pre-harvest drop on apples, apply 8.0 to 32.0 fluid ounces per acre of this product in sufficient water to achieve good coverage. Adjust rates depending on variety, age and size of trees, ambient temperature and other environmental conditions. Improvement in fruit size and color may be expected in certain varieties. Up to 1.0 pint of a light summer oil may be added to each 100 gallons of spray mixture to improve coverage

### **For Pears:**

To prevent pre-harvest drop on pears, apply 8.0 to 32.0 fluid ounces per acre of this product in sufficient water to achieve good coverage. Adjust rates depending on variety, age and size of trees, ambient temperature and other environmental conditions. Up to 1.0 pint of a light summer oil may be added to each 100 gallons of spray mixture to improve coverage.

### **Aerial Application**

**For apples and pears:** To prevent pre-harvest drop on apples and pears, apply 8.0 to 32.0 fluid ounces of this product per acre diluted in 5.0 to 10.0 gallons of water. To ensure better coverage, up to 2.0 gallons of any light summer oil may be substituted for 2.0 gallons of water.

### **USE DIRECTIONS FOR THINNING OLIVE TREES**

This product is effective for thinning the fruit load of olive trees when an excessively heavy fruit set is observed . **TIMING IS CRITICAL.** Spray when young fruitlets are 1/8" to 3/16" in diameter, which is generally observed 10 to 18 days following full bloom. Thinning is effective on all varieties except Sevillano. Calibrate spray equipment to calculate desired spray volume per acre. This product can be applied through any conventional spraying equipment.

**Without Oil:** Under normal conditions, a spray concentration of 150 ppm 1-NAA equivalent (obtained by adding 36.0 fluid ounces of this product and any non-ionic wetting agent at recommended label rates to each 100 gallons of water) is adequate for thinning olives. Higher 1-NAA concentrations may be applied if needed. Adjust spray volume based on variety, age and size of trees, ambient temperature, planting density and other factors. Addition of a non-ionic wetting agent is important since it ensures uniform spray coverage.

**With Oil:** Prepare a spray mixture of 100-150 ppm 1-NAA equivalent obtained by mixing thoroughly 24.0 to 36.0 fluid ounces of this product and 1.0 to 1.5 gallons of a light or medium grade summer oil in 100 gallons of water. Keep spray mixture agitated during spray operations. Spray trees which have exhibited excessive flowering and fruit set. Ensure thorough spray coverage. Since addition of oil aids thinning, a downward adjustment to 1-NAA concentrations may be needed to ensure optimal thinning. Adjust orchard spray volume based on variety, age and size of trees, ambient temperature, planting density and other factors.

**PRECAUTION:** Unless all fruit from the olive trees need to be removed, DO NOT treat with this product during the full bloom period.

### **Aerial Application:**

**For olives:** For thinning, apply up to 96.0 fluid ounces of this product per acre in 5.0 to 10.0 gallons of water depending on level of thinning desired. Addition of a light summer oil is optional.

Do not exceed a total of 96.0 fluid ounces of this product per acre per application or per year or crop cycle

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**Use Directions for Olive Flower and Fruit Elimination Only:**

For best results, this product should be applied when the olive trees are in full bloom and before fruit set has occurred. During periods of extended bloom, more than one spray will be necessary to achieve total flower elimination. When extended bloom occurs, the first application should be made between 1/2 and 3/4 bloom with a second spray made 7 to 14 days later. If necessary, a third spray may be made 7 to 14 days after the second application. In desert or extremely dry areas, all fruit can be eliminated even after fruit has reached "pinhead" to "small shot" size. However, best results are obtained when olive trees are sprayed during full bloom and prior to fruit set.

**Rates:** Mix 4.0 fluid ounces of this product in 10.0 gallons of water. To ensure proper coverage add 0.5 to 1.0 fluid ounce of any suitable non-ionic wetting agent to each 10.0 gallons of spray mix.

**ALL CROPS:** Do not exceed 96.0 fluid ounces (0.33 lb 1-NAA equivalent) of this product per acre per season.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. Place damaged package in a holding container. Identify contents.

**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 this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact The Agricultural Container Recycling Council (ACRC) at [www.acrecycle.org](http://www.acrecycle.org).

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**For packages up to 5 gallons: 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. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 5 gallons and less than 56 gallons: Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

**For packages greater than 56 gallons:** To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**For refillable containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

**For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC - 1-800-424-9300.**

**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way. Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product.

Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions,

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mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL AND TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THIS PRODUCT IS SOLD "AS IS," AND LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

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TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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