

**NUTRIENTS SUPPLIED (pounds per Litre):**

**Total Nitrogen (N)**..... 0.245  
(ammonical and nitrate form)

(grams per litre)  
**Calcium (Ca)**..... 111.2  
(glucoheptonic acid- chelating agent)

**PRODUCT PROPERTIES:**

**Weight:** 1.39 kg/L  
**Specific gravity:** 1.39  
**pH:** 6.5-7.5  
**Odor:** odorless

**GENERAL PRODUCT INFORMATION:**

**ALPINE Liqui-Cal®** provides crops will readily available nitrogen and calcium. Use of a sound liming program will enhance the performance of **ALPINE Liqui-Cal®**. As a Soil applied product **ALPINE Liqui-Cal®** can stabilize the soil pH and aid in the transport of nutrients into the plant. Application can be combined with pre-emergent herbicides or combined with UAN applications. Rates are dependent on the calcium characteristics of your soil therefore consult with an ALPINE retailer or ALPINE District Sales Manager for specific recommendations. **ALPINE Liqui-Cal®** can also be used as a foliar spray to correct calcium deficiencies and increase the plant available calcium. A sufficient supply of calcium in the leaves has helps plant leaves control heat stress and control infection of plant diseases.

**FIRST AID:** Please see MSDS sheet for more information, call (800) 265-2268 or visit us online at [www.alpinepfl.com](http://www.alpinepfl.com).

SELLER WARRANTS THAT THE ABOVE PRODUCT CONFORMS TO ITS CHEMICAL DESCRIPTION AND IS REASONABLY FIT FOR THE PURPOSE ON THE LABEL WHEN USED IN ACCORDANCE WITH DIRECTIONS UNDER NORMAL CONDITIONS OF USE (INCLUDING NORMAL WEATHER CONDITIONS). NEITHER THIS WARRANTY NOR ANY OTHER WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, EXPRESS OR IMPLIED, EXTENDS TO THE USE OF THIS PRODUCT WHEN USED CONTRARY TO THE LABEL INSTRUCTIONS OR UNDER ABNORMAL CONDITIONS (INCLUDING ABNORMAL WEATHER CONDITIONS), AND THE BUYER ASSUMES THE RISK OF ANY SUCH USE. ALPINE STARTER OR FOLIAR APPLICATIONS ARE INTENDED TO SUPPLEMENT EXISTING SOIL FERTILITY PROGRAMS AND WILL NOT BY ITSELF PROVIDE ALL THE NUTRIENTS NORMALLY REQUIRED BY AGRICULTURAL CROPS.

\*THESE ARE GENERAL PRODUCT RECOMMENDATIONS. PLEASE CONSULT WITH YOUR AUTHORIZED ALPINE DEALER OR ALPINE DISTRICT SALES MANAGER FOR SPECIFIC FERTILITY RECOMMENDATIONS.

**ROLE OF CALCIUM IN THE PLANT**

- Key to cell wall structure
- Instrumental in cell division and elongation
- Enzyme activity
- Regulation of nutrient flow in the roots and in plant cells
- Regulation of leaf stomata which aids in reducing heat stress
- Instrumental in limiting plant disease infections
- Influences fruit ripening
- Increases self-life of many vegetable crops
- Increases nitrogen use efficiency of urea by reducing ammonia losses

**product recommendations** • • • •

**SIDE DRESS**

Use 8-15 L /ac in a minimum of 45 L /ac of 28% UAN

**FOLIAR APPLIED**

Row and Field crops - Use 11 L/ac in a minimum of 40 L per ac of water  
Tobacco – 2- 4L/ac with sucker oil (2-3 applications)  
Vegetable crops – 2-4L/ac

**DRIP IRRIGATION**

Use 11 L/ac

**SURFACE APPLIED**

Use 8 L/ac along with 28% UAN application

**WARNING:** this product is very sensitive to small amounts of phosphate and potassium. Ensure you handling equipment does not have any phosphate residue. Ensure your UAN was not shipped to you in a container which was previously used for a phosphate fertilizer unless it has been thoroughly cleaned beforehand. Small residue amounts will cause product to form precipitates and plug spray nozzles.

When mixing **ALPINE Liqui-Cal®** with other products perform a jar test to ensure physical product compatibility.

Consult with your authorized ALPINE retailer or ALPINE District Sales Manager for more specific recommendations.



ALPINE Liqui-Cal



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[www.alpinepfl.com](http://www.alpinepfl.com)



# ALPINE GENERAL RECOMMENDATIONS

## EARLY APPLICATIONS FOR SEEDED CROPS

Applications of ALPINE liquid fertilizers early in the plant's life can encourage development, increased growth, vigor, and yield potential. ALPINE liquid fertilizer may effectively be applied at the first to second true leaf stage directly to the small plant, continuing whenever nutrition is required.

## MIXING INSTRUCTIONS:

ALPINE liquid fertilizers can mix with many crop production products. Some non-100% EDTA chelates may not be compatible.

- In a small container prior to full scale mixing, proportionally mix all the components to confirm compatibility.
- Thorough mixing of all blends is important.
- Temperature and storage time can influence the degree of success.
- Mix only the amount that will be immediately used.
- Long-term storage is not suggested.

## MIXING PROCEDURE

- Add ½ of total water to spray tank
- Start recirculation in the tank
- Add micronutrients and or any other flowable material
- Add any soluble powder first pre-mixing with water
- Add the recommended amount of **ALPINE** liquid fertilizer
- Add remaining water volume and continue recirculation prior to spraying



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**THE FOLLOWING CONDITIONS MUST BE OBSERVED IN ORDER TO APPLY ALPINE LIQUID FERTILIZER FOR FOLIAR APPLICATIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THE PLANTS.**

- **DO** use ALPINE fertilizers under conditions of optimum plant growth including highest humidity, moderate temperature and adequate soil moisture.
- **DO** add, as a minimum, equal amounts of water. Do use sufficient water to provide thorough coverage.
- **DO** consult with your local ALPINE District Sales Manager to determine pesticides which are compatible with ALPINE fertilizer.
- **DO** add wettable or soluble powders, emulsifiables or flowables to water in the mix and wet, dissolve or disperse before adding ALPINE fertilizer.
- **DO** consult your local ALPINE District Sales Manager for rate and application instructions.
- **DO** use a small jar or container prior to full scale mixing to proportionally mix all the components to confirm compatibility.
- **DO NOT** use when the crop is under stress from pests, heat or inadequate soil moisture.
- **DO NOT** apply by aircraft if surface wind is greater than five miles per hour to assure adequate crop coverage and droplet disposition.
- **DO NOT** spray to run off. Do not spray to visible droplet coalescence. Do not allow concentrated spray mist to run off fruit or leaves.
- **DO NOT** apply during the heat of the day.