

# N-CAL NUTRIENT

## Product Data Sheet

### General Description

N-Cal® nutrient, a liquid calcium chloride (CaCl<sub>2</sub>) supplement, is a specially formulated blend of calcium and nitrogen that provides unique benefits that other fertilizers cannot offer. Based on research conducted at Texas A&M University, N-Cal formulations offer growers the most soluble calcium fertilizer on the market.

### Applications

**Crop Nutrition.** Calcium is an essential element for growing high yielding, high quality crops. The absence of adequate levels of available calcium not only reduces the production capacity of the plant but also lowers its resistance to disease and other environmental pressures. An adequate supply of calcium at the right time is critical.

**Amending Sodium Affected Soils.** Calcium has long been recognized important for its use in soil amendment. By using a highly soluble source of calcium like N-Cal, the grower is able to quickly remove harmful sodium salts from the root zone, leaving behind valuable calcium and nitrogen nutrients to provide proper nutrition for rapid recovery and vegetative re-growth.

**Enhanced Nitrogen Uptake.** Studies conducted at Texas A&M have shown that in urea nitrogen will stay in the ammonium form longer when combined with calcium chloride at certain ratios. Plants absorb up to four (4) times more ammonium nitrogen than nitrate nitrogen. The A&M research showed that increased ammonium uptake is associated with higher yields and better quality crops.

### Availability

N-Cal nutrient is available as a bulk liquid.

#### TETRA Chemicals

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### Safety and Handling

N-Cal nutrient is a strong calcium chloride salt solution. Protective clothing, rubber gloves and eye protection are recommended. Rubber safety boots should also be worn in work areas, since calcium chloride can damage leather. This product should be handled in areas with proper ventilation. Before using this product, refer to the MSDS (available on the Company's website) for complete safety and handling guidelines. For proper disposal guidelines for calcium chloride wastes, consult the appropriate local regulatory authorities.

#### CHEMICAL PROPERTIES

<b>Chemical</b>	N, CaCl <sub>2</sub>
<b>Appearance</b>	Clear to straw liquid solution
<b>Odor</b>	None
<b>Assay</b>	Typically 12 to 13% by weight CaCl <sub>2</sub>
<b>Density</b>	Approx. 11.1 lb/gal
<b>pH</b>	7.0

#### TYPICAL ANALYSIS\*

<b>Guaranteed Analysis Calcium (Ca)</b>	12%
<b>Guaranteed Analysis Nitrogen (N)</b>	2%
<b>Chloride (Cl)</b>	22-26%
<b>Arsenic (As)</b>	< 5 mg/kg
<b>Cobalt (Co)</b>	< 20 mg/kg
<b>Heavy Metals (including Pb)</b>	< 20 mg/kg
<b>Lead (Pb)</b>	< 5 mg/kg

\*impurities based on 100% CaCl<sub>2</sub> basis