

# NUTRA-ZORB SUSPENSION CALCIUM

## GUARANTEED ANALYSIS

Calcium (Ca) ..... 20.8% By Weight  
 28.0% CaO  
 42.0% CaO By Weight

Undiluted pH 4.0-4.5  
 1% dilution pH neutral



Nutra Zorb Suspension Calcium is a high analysis, high purity calcium carbonate derived formulation that has been manufactured only crushing and milling and is in compliance with USDA NOP, and recommended for organic farming.

Strict quality controls insure particle size does not exceed 3.5 microns (mm).

Nutra Zorb Suspension Calcium carries a cationic (+) positive electrostatic charge which greatly enhances the attachment of calcium to the soil negatively (-) charge particles, such as clay colloids. Soil aggregates are formed in a process of positive and negative attraction that build clay platelets that soil scientists call clay domains. These clay domains form randomly in the soil and along with organic colloids (Humus), fine silt particles and under the Influence of polyvalent cations (e.g. Calcium<sup>+2</sup>, Iron<sup>+2</sup>) provide much of the long term stability of clayey soil.

Nutra Zorb Suspension Calcium advantageous availability is quicker acting than Calcium sulfate, does not stimulate a flush of growth as Calcium Nitrate may do and does not increase soil salt as calcium chloride may do.

Nutra Zorb Suspension Calcium is a simple, yet superior form of supplying calcium to the soil and plant.

## SPECIAL FEATURES:

- May be applied to all soil types.
- Improves post-harvest quality of fruit and vegetables.
- Improves salty soil (sodic) water penetration into the soil by displacing sodium and lowering the electrical conductivity (EC.) of soil.
- Flocculates heavy soils with structural problems, increase soil porosity and enhances absorption of nutrients.
- In calcareous and alkaline soils, calcium remains available regardless of soil pH.

## SUGGESTED DOSAGE: SOIL APPLICATION

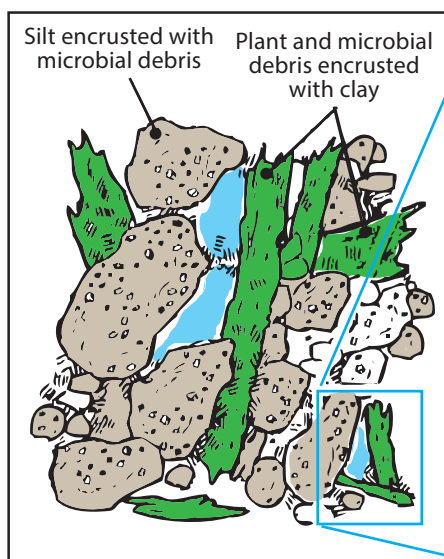
For nutrient and flocculation of medium to heavy soil apply 5 to 10-Kgs. per hectare every 7 to 10 days for total 50 to 70-Kgs. per hectare for the cropping season.

For nutrient and displacement of salt and flocculation of heavy soil apply 5 to 10-Kgs. per hectare weekly or 60 to 100-Kgs. per hectare for the cropping season.

Saline Soil	70-90 Kgs. / HA per year
Saline Soil with Sodium	80-100 Kgs. / HA per year
Neutral Soil	60-Kgs. / HA per year
Acidic Soil (neutralize AL)	60-80-Kgs. / HA per year
Clay loam soil with water infiltration problem, increase dose 15%	

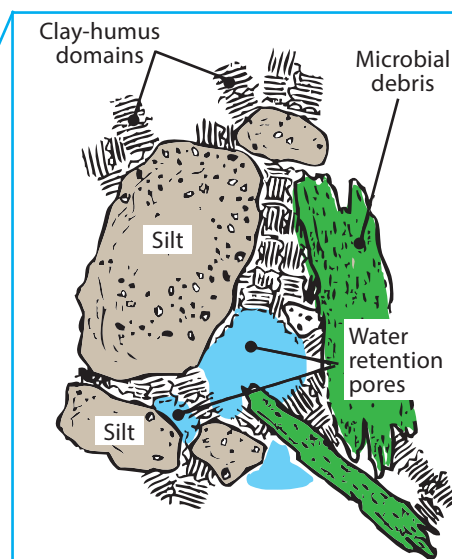
### AGGREGATE

- Mineral grains encrusted with plant and microbial debris
- Plant debris coated with clay



### MICRO AGGREGATE

- Micro Aggregate of silt, clay and humus
- Calcium and clay-humus domains



## DIRECTIONS

**Foliar Application:** Nutra Zorb Calcium is buffered with carboxylic acid, with a pH 4.0 – 4.5 undiluted. The slightly acidic solution carries a cationic (+) positive charge which enhances the attraction and attachment of the calcium to the leaf surface

**APPLES & PEARS** - Western States: Apply 5 to 25 Lbs. per acre per application in pre- and/or post-bloom sprays. Repeat as needed. Do not apply during bloom period, under poor drying conditions or within 24 hours of predicted rainfall. Do not apply with other materials that may cause russetting .

**APRICOTS, PRUNES, PLUMS, NECTARINES, PEACHES, CHERRIES** - Apply 10 to 25 Lbs. per acre per application in pre- and/or post-bloom sprays. For developing early leaf surface, use 10 to 25 Lbs. per acre in pink bud stage. More than 1 application is advisable. CAUTION: Do not apply to fruit within 3 weeks of harvest because of visible residue.

**ARTICHOKES** - Apply 5 to 15 Lbs. per acre per application.

**ASPARAGUS** - Apply 5 to 10 Lbs. per acre after start of new fern growth. Repeat at intervals of 2 to 3 weeks as needed.

**AVOCADOS** - Apply 5 to 10 Lbs per 100 gallons and flush wet the foliage. By air or concentrate spray: use 10 to 30 Lbs. per acre per application.

**BEANS, SOYBEANS, PEAS. LENTIL** - Use 2 to 10 Lbs per acre per application. First application at bud to early bloom stage. Repeat in 2 to 3 weeks.

**BLUEBERRIES, CANE BERRIES** - Apply 3 to 20 Lbs. per acre over new growth in Spring, Applications should not be made after fruit starts to color.

**BEETS, CARROTS, SWEET POTATOES & OTHER VEGETABLE ROOT CROPS** - Apply 3 to 10 Lbs per acre per application.

**CITRUS (ALL VARIETIES)** - By air or concentrate sprayer, apply 10 to 50 Lbs per acre per application in 15 to 100 gallons of water. By conventional ground rig: apply 4 to 8 Lbs per 100 gallons and flush wet the foliage (up to 50 Lbs per acre per application): In oil sprays, 1.5 to 3 Lbs. per 100 gallons of spray mix.

**GRAPES** - Apply 5 to 15 Lbs. per acre per application. First application when new shoots are in the 4 to 6-leaf stage, repeat as needed.

**KIWIS** - Apply 5 to 15 Lbs per acre per application.

**LETTUCE, CELERY, COLE CROPS & LEAFY VEGETABLES** - Apply 2 to 10 Lbs per acre per application. Make several applications at intervals of 2 to 3 weeks starting at thinning period.

**MELONS, CUCUMBERS & OTHER CUCURBITAE** - Apply 2 to 10 Lbs per acre per application. Make 2 or more applications at intervals of 2 to 3 weeks starting just prior to bloom.

**MINT** - Apply 5 to 15 Lbs. per acre per application. First application at 6 inches of new growth, repeat 2 to 3 weeks later or as needed

**NUT CROPS (WALNUTS, PECANS, PISTACHIOS, FILBERTS)** Apply 10 to 30 Lbs. per acre per application, pre-bloom and in cover sprays.

**OLIVES** - Apply 15 to 30 Lbs per acre per application. Apply 15 to 20 days after thinning, repeat 3 to 4 weeks later. If crop is not thinned, apply 1 to 2 weeks after full bloom, repeat 3 to 4 weeks later.

**PEANUTS** - Apply 5 to 30 Lbs. per acre per application. First application at early-bloom stage, repeat at intervals of 2 to 3 weeks as needed.

**POTATOES** - Apply 5 to 15 Lbs per acre per application. First application when plants are 4 to 12 inches high. Second application 3 weeks later, repeat as needed.

**STRAWBERRIES** - Apply 5 to 10 Lbs per acre per application. Do not apply after fruit starts to color as a visible residue may remain.

**SUGAR BEETS** - Apply 5 to 15 Lbs per acre per application. First application when plants are 6 to 8 inches across. Second application 3 to 4 weeks later, repeat as needed.

**TOMATOES, PEPPERS** - Apply 3 to 10 Lbs. per acre per application in enough water to give even distribution of materials. One to three applications are advised at 3 to 4-week intervals, starting in period prior to bloom.

**DILUTION FOR AIR OR CONCENTRATE SPRAYS:** When total gallonage applied per acre is 25 gallons or less, NUTRA-ZORB may be used at the rate of 1 Lb. per gallon of water, but **DO NOT EXCEED THE MAXIMUM RECOMMENDED RATE PER ACRE.**

**COMPATIBILITY:** NUTRA-ZORB is compatible with most commonly used wettable powder fungicides, insecticides and miticides.

**SPREADER:** The addition of 1/2 pint to 1 quart per 100 gallons (1/2 to 2 pints per acre by air or concentrate rig) as a spreader and acidifier will improve results on all crops.