

**NEW
PRODUCT!**



SODIUM KNOCKOUT 5-0-0

With 6% CALCIUM

- Reduce Soil and Water Salinity
- Does Not Contain Any Chlorides
- Contains 100% Reactive Form of Ca

- Boosts Soil Structure and Root Growth
- Enhances Nutrient Uptake
- Reduces Compaction

GUARANTEED ANALYSIS:

Total Nitrogen (N)5%
 5% Nitrate Nitrogen
 Calcium (Ca).....6%
 Derived From: Calcium Nitrate, Calcium acetate.

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

1% Natural Wetting Agent (Yucca schidigera)
 0.1%Fulvic Acid (derived from Leonardite)

TECHNICAL DATA:

Weight per Gallon..... 10.9 lbs
 Weight per Liter 1.3 kg
 pH 6

PRODUCT DESCRIPTION:

KnockOut is a new and unique combination product that contains readily available calcium and a natural surfactant / wetting agent from yucca. It is an effective tool to reduce sodium levels in soils or bicarbonate accumulation from irrigation water. KnockOut quickly penetrates even the most difficult soils. It will also increase the permeability of soils, while reducing soluble salts that build up in soils from high water salinity. It can be used on soilless media where excessive salt build up often occurs from continued use of pesticides and high salt fertilizers. Soil salinity is one of the most serious turf problems especially, in high pH soils. KnockOut's calcium is in a 100% soluble form that is immediately available to react with the sodium, unlike gypsum based products. Calcium cation ranges between 65 - 70% (Cation Exchange Capacity - CEC). CEC measures the soil's ability to hold nutrients such as potassium (K), magnesium (Mg), and calcium (Ca) as well as other positively charged ions such as sodium (Na) and hydrogen(H). It is a much safer alternative to chlorides and sulfates. KnockOut will improve soil structure, enhance better rooting, water infiltration and improve overall turf quality.

APPLICATIONS:

Correcting saline-sodic and sodic soils must be carried out in steps beginning with restoration, followed by continued maintenance.

Landscape Plantings, Trees, Shrubs & Ornamentals	
Soil Drench	2 - 3 ounces per gallon of water. Thoroughly drench soil around planted area (59 - 88 ml per 4 L water)

Greenhouse & Nursery Injection At 1:100 Ratio	
100 PPM Ca	19 oz. per gallon water (150 ml per liter water)

Container Crop Program		
Application	Rate	Notes
Nurseries: Containerized Crops, Woody Ornamentals, Foliage Plants, Trees	1 - 2 quarts per 100 gallons of water (60 - 125 ml in 100 L water)	Thoroughly drench container to point of run-off
Hand Watering	1- 1.25 tsp per gallon of water (2 ml per liter water)	Saturate soil

Agricultural Soil Salinity Programs	
Plant / Crop	Application Rate per Acre
Berries, Citrus Trees, Tomatoes, Small Fruit, Grapes and Vegetables, Nut Trees, Tropical Fruits	Use 1 - 2 gallons per acre. Apply with sufficient water to move the salts and sodium through the soil. (9 - 19 liters per hectare) The goal is to move the sodium to a minimum depth of 3 - 4 ft.
Drip Irrigation	Continued use of irrigation water high in salts. Apply 1 - 2 gallons per acre via drip tape or low volume irrigation. (9 - 19 liters per hectare)
Greenhouse & Shadehouse, Liners & Plugs	Apply 1 - 2 quarts per 100 gal water as a soil drench. Repeat every 1 - 2 months or as needed. (250 - 500 ml per 100 liters water)

The following precautionary statements and pictograms are based on The Globally harmonized System of Classifications and Labeling of Chemicals (GHS) and are mandated by the Occupational Safety and Health Administration (OSHA)



WARNING

H320 Causes Eye Irritation
 H316 Causes Mild Skin Irritation

Condition of Sale and Warranty: Growth Products, Ltd. warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions under normal conditions of use. Handling, storage and use of the product by Buyer or User are beyond the control of Growth Products, Ltd. and Seller. Risks such as crop injury or other unintended consequences resulting from, but not limited to, weather or soil conditions, presence of other materials, disease, pests, drift to other crops or property, or failure to follow label directions will be assumed by Buyer or User. IN NO CASE WILL GROWTH PRODUCTS, LTD. OR SELLER BE HELD LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES RESULTING FROM THE HANDLING, STORAGE OR USE OF THIS PRODUCT.

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