



JH Biotech
Biotechnologies for Safer Agriculture

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NITRATE CONVERTER

0-4-3

NITRATE CONVERTER is designed to aid in increasing nitrogen use efficiency and it may help improve plant vigor by converting nitrates to ammonia nitrogen, maintain hormone balance, correct molybdenum deficiency, and prepare crops for harvest. **NITRATE CONVERTER** contains the essential plant nutrients phosphorus, potassium, boron, and molybdenum. When properly applied these nutrients may help to balance plant nutrients by converting nitrate to ammonium nitrogen. Molybdenum is used in several metabolic systems within the plant. First, it is a key component in the enzyme nitrate reductase which converts inorganic forms of nitrogen (nitrates) into compounds that can be used in the production of proteins. In fact, nitrate reductase is the rate-controlling step in the production of amino acids which are the building blocks of protein. Protein content is especially important in many cereal grains. Second, molybdenum is essential in nitrogen fixation by Rhizobium root-inhabiting bacteria which are most often found in legume crops and used by growers as soil inoculants.

Molybdenum deficiency is expected on well-drained, leached acid soils and on some sandy soils. Molybdenum deficiency symptoms may include deformed leaves (ex. "whiptail" in cauliflower). And yellowing of the leaves is the most common symptom in clovers and legumes.

Benefits of Using NITRATE CONVERTER

- Improved nitrogen use efficiency
- Essential for Rhizobium bacteria
- Corrects molybdenum deficiency
- Improve quality of fruit
- Source of potassium and phosphorus





References:

Molybdenum and Tungsten: Their Roles in Biological Processes. 2002. A. Sigel and H. Sigel (eds.). CRC Press. Volume 39. 810 pages.

Soil Fertility Management for Sustainable Agriculture. 1997. R. Prasad and J. Fowler (eds.). CRC Press. 356 pages.

GENERAL RECOMMENDATIONS:

NITRATE CONVERTER can be applied by concentrated ground sprayers, dilute sprayers, aircraft and other conventional application methods. Dilute Nitrate Converter in enough water to thoroughly cover plants. Generally, a minimum of 50 gallons of water per acre is needed.

AVOCADO AND CITRUS: Apply 1-3 quarts of Nitrate Converter per acre as a foliar spray. Make applications 4-6 weeks prior to harvest.

STRAWBERRIES AND BERRIES:

Apply 2-4 quarts of Nitrate Converter per acre. Repeat at 4-6 week intervals during the picking season or as needed.

TREES AND VINES (INCLUDING NUTS, FRUITS, BERRIES, KIWIS, AND GRAPES):

Apply 2-5 quarts of Nitrate Converter per acre. Make applications 4-6 weeks prior to harvest.

VEGETABLES AND FIELD CROPS:

Apply 1-4 quarts of Nitrate Converter per acre. Make applications 4-6 weeks prior to harvest.

ORNAMENTALS: Apply ½ to 1 fluid oz per gallon of water and spray on foliage to wet. Apply at 4-6 week intervals as needed.

TURF GREENS: Apply 2-3 fluid oz. in 3-5 gallons of water per 1,000 square feet. Apply at 4-6 week intervals.

FAIRWAYS: Apply 1-2 oz. per 1,000 square feet in at least 5 gallons of water. Irrigate after application. Repeat as needed.



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For labels and MSDS, visit our website at www.jhbiotech.com or call us at 805.650.8933

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