



# NACHURS Full-Slate™

10-0-0



## Nutrients Supplied (pounds per gallon):

Total Nitrogen (N) .....	1.075
Sulfur (S).....	2.042
Copper (Cu).....	0.016
Molybdenum (Mo).....	0.005

Derived from: Ammonium Sulfate, Ammonium Thiosulfate, Cu EDTA, Sodium Molybdate

Also contains non-plant food ingredients: 0.15% humic acid derived from leonardite

## Product Properties:

Analysis.....	10-0-0-19-15Cu-.05Mo
Weight .....	10.75 lbs/gal
Specific gravity .....	1.289 kg/L
pH.....	7.2 to 8.2
Appearance.....	Light to dark brown
Odor .....	Slight Ammonia

## GENERAL PRODUCT INFORMATION:

NACHURS Full-Slate™ is a proprietary, high sulfur, all-in-one liquid formulation with micronutrients (copper, molybdenum) and organic acids (humic acid) designed to provide greatly needed sulfur and enhance the plants' ability to utilize nitrogen more efficiently. It contains two forms of sulfur (sulfate-S and thiol-S) for both immediate and long-term sulfur response. NACHURS Full-Slate™ is manufactured with the highest quality raw materials for safe and effective performance as well as organic acids (humic) to stimulate soil microbial activity, aid in solution buffering capacity, and enhance nutrient uptake.

FIRST AID: Please see the SDS sheet for more information, call (800) 622-4877 or visit us online at www.nachurs.com.

KEEP OUT OF REACH OF CHILDREN.

\*THESE ARE GENERAL PRODUCT RECOMMENDATIONS. PLEASE CONSULT WITH YOUR AUTHORIZED NACHURS DISTRIBUTOR OR AGRONOMIST FOR SPECIFIC FERTILITY RECOMMENDATIONS. THESE RECOMMENDATIONS ARE BELIEVED TO BE RELIABLE AND SHOULD BE FOLLOWED CAREFULLY. FAILURE TO FOLLOW LABEL DIRECTIONS OR IMPROPER APPLICATION PRACTICES, ALL OF WHICH ARE OUT OF CONTROL OF THE MANUFACTURER OR SELLER, CAN RESULT IN PLANT OR LEAF DAMAGE. CROP INJURY MAY RESULT FROM UNUSUAL WEATHER CONDITIONS. FAILURE TO FOLLOW LABEL DIRECTIONS OR IMPROPER APPLICATION PRACTICES ALL OF WHICH ARE OUT OF CONTROL OF NACHURS.

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. NACHURS 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.

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## GENERAL USE INFORMATION:

NACHURS Full-Slate™ fertilizer is supplied in a ready-to-use liquid form, making its use and application convenient, easy, and efficient. Apply with adequate carrier volume (i.e. nitrogen solutions or water) to ensure thorough spray coverage. It is uniquely adapted to all crops and cropping systems to provide significant quantities of liquid sulfur (2.04 lbs/gal) for plant growth and development. NACHURS Full-Slate™ is ideally formulated for strip-till, preplant broadcast, topdress, beside the row (i.e. 2x2), sidedress, basal placement (i.e. Y-drop), and fertigation applications, but can be applied foliar in small quantities as required. Proposed mixtures should be evaluated in a jar test prior to full-scale use. Fertilizer-based mixtures that also include pesticides should be applied as soon as possible. Before using any tank mix, test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application. Use normal irrigation practices when applying NACHURS Full-Slate™ via fertigation. Consult your local Extension Agent for additional information on rates, timing of application, and phytotoxic sensitivity of varieties or hybrids if need be.

## PRODUCT RECOMMENDATIONS:

NACHURS Full-Slate™ may be applied to a wide variety of agricultural, fruit, vegetable, vineyard, and orchard crops. Sulfur requirement of most crops is greatest during early development, periods of fruit initiation, and/or fruit fill. Apply as needed based on soil or tissue analysis results, or according to recommendations in your nutrient management plan. Applications should be made based on performance experience, or a soil/tissue analysis indicating a need for sulfur.

DO NOT PLACE IN CLOSE PROXIMITY TO SEED.

Uses include but are not limited to the crop specific directions mentioned below.

Soil applied: 1 to 20 gal/ac

Foliar applied: 1 to 4 pt/ac

Fertigation, sprinkler: 1 to 6 gal/ac

Fertigation, drip: 1 to 4 gal/ac

## NUTRIENT FUNCTIONS:

Many consider sulfur (S) as the 4th major nutrient behind N, P, and K, and is a critical component in achieving optimum crop performance. Function of nutrient contained in NACHURS Full-Slate™ include:

### Nitrogen (N):

- Major component of amino acids, which are the building blocks of proteins.
- Component of energy-transfer compounds, such as ATP (adenosine triphosphate).
- Significant component of nucleic acids such as DNA, the genetic material that allows cells (and eventually whole plants) to grow and reproduce

### Sulfur (S):

- Formation of chlorophyll that permits photosynthesis through which plants produce starch, sugars, oils, fats, vitamins, and other compounds.
- Constituent of three S-containing amino acids (cysteine, cystine and methionine), which are the building blocks of protein.
- Synthesis of oils, especially in oilseed crops; activation of enzymes, which aid in biochemical reactions in the plant.
- General N:S ratio for corn ranges from 6:1 to 10:1 for optimum efficiency.

### Copper (Cu):

- Photosynthesis and cell integrity.
- Enzyme activation for amino acid and protein production.

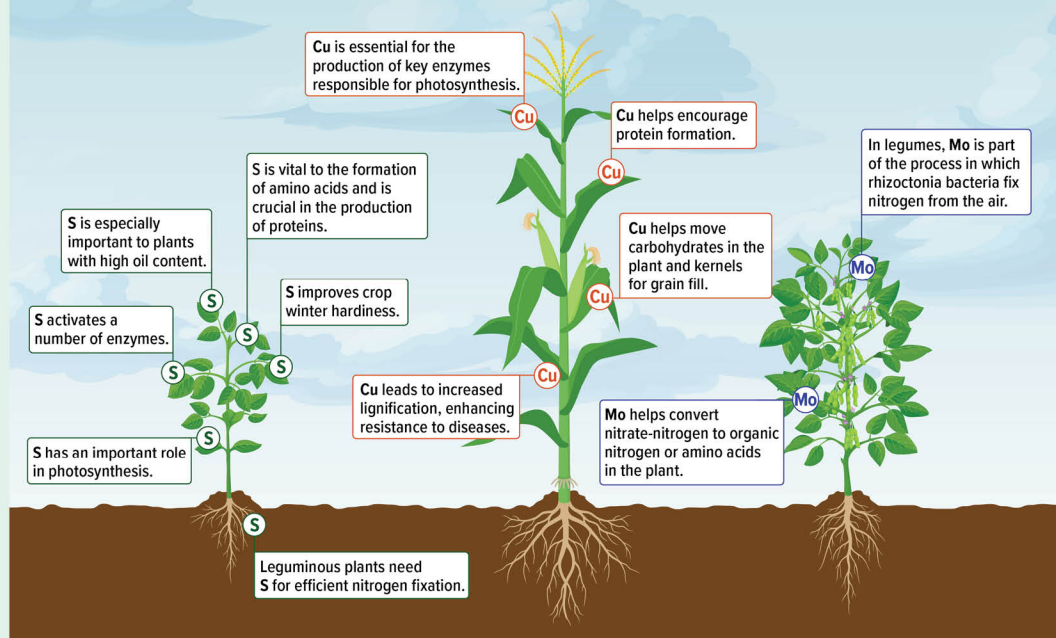
### Molybdenum (Mo):

- Essential component of molybdoenzymes involved in nitrogen reduction (nitrate reductase), nitrogen fixation (nitrogenase), and purine catabolism (xanthine dehydrogenase).

### Humic acid:

- Enhanced root development and nutrient uptake.
- Greater photosynthetic capacity, buffering ability, and nitrogen stabilization.

## The Role of Sulfur, Copper, and Molybdenum in Crop Production



Visit us online: [www.nachurs.com](http://www.nachurs.com)

