

NACHURS®



NUTRIENTS SUPPLIED (pounds per gallon):

Total Nitrogen (N)	1.6
Available Phosphate (P ₂ O ₅).....	1.6
Soluble Potash (K ₂ O).....	0.33
Sulfur (S).....	0.33

Derived from: Ammonium Hydroxide, Ammonium Thiosulfate, Phosphoric Acid, Potassium Hydroxide

PRODUCT PROPERTIES:

Analysis:.....	15-15-3-3
Weight:.....	10.9 lb. per gallon
Specific gravity:.....	1.31 kg/L
pH:.....	6.0-6.6
Appearance:.....	Green Liquid
Odor:.....	Minimal

GENERAL PRODUCT INFORMATION:

NACHURS Sideline is a high nitrogen, high phosphorus, low salt liquid fertilizer manufactured by utilizing quality raw materials which provide important nutrients (N,P,K,S) for maximum plant growth and development. The raw materials used in the manufacturing of **NACHURS Sideline** liquid fertilizer contributes to the following:

- Maximizes plant nutrient solubility and maximizes plant nutrient availability
- Minimizes salt index
- Minimizes equipment corrosion
- Minimizes incompatibility issues with high nitrate UAN sources
- Allows for good cold weather storage
- Is plant safe with proper placement (not in-furrow)
- Is plant safe at recommended rates

It is formulated to deliver dual modes of action for phosphorus nutrition; orthophosphate for immediate plant availability and uptake potential, and polyphosphate for controlled release over a period of time. Its targeted utilization is for banding at planting (i.e. 2x2) and/or strip-till applications prior to planting and is an excellent alternative to on-site blending of UAN and APP solutions due to its more complete nutrient content and superior compatibility.

FIRST AID: Please see 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

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NACHURS Sideline™

Premium Liquid Fertilizer

NOT FOR IN-FURROW USE!

Soil Application (Banded, Strip-Till):

Can be applied 1:1 with nitrogen solutions or alone at rates from 1-40 gal/ac. Consult your local NACHURS Sales Manager for typical rates by crop in your area.

Soil Application (Y-Drop):

Apply 1-6 gal with 10-30 gal UAN to supply plant available phosphorus closer to peak demand.

Foliar Feeding General Guidelines:

Corn, Cotton, Dry Beans, Soybean, Sugar Beets, and other row crops: 1-2 gallons per acre with sufficient water for coverage when plant phosphorus demand is high.

Product Recommendations:

Potassium: Potassium teams with nitrogen and sulfur to produce proteins which are essential for proper plant growth. A high testing soil potassium level does not mean adequate potassium will be available to fulfill the plants need. The addition of potassium to your fertility program provides the following:

- Helps increase drought resistance
- Helps develop stronger stalks and stems
- Maintains a healthy plant metabolism
- Assists in photosynthesis
- Helps translocation within the plant
- Increases protein and starch levels to help translocation of compounds within the plant
- Aids in fighting diseases

Sulfur: Sulfur is an essential nutrient for crop production, often ranked behind only nitrogen, phosphate and potassium. Sulfur is critical in a young corn plant, deficient amounts at this growth stage and you begin to lose yield. Sulfur is needed to metabolize nitrogen making it available to the plant. The need for sulfur is closely related to the amounts of nitrogen available to the crop. Sulfur activates the enzyme nitrate reductase, which converts nitrates to amino acids within the corn plant.

For more specific foliar guidelines, consult with your authorized NACHURS Dealer or NACHURS District Sales Manager for fertility recommendations.

Mixing Instructions:

NACHURS liquid fertilizers can be mixed with many crop production as well as crop protection products. Chelated micronutrients that are not 100% EDTA will not be compatible.

- In a small container prior to full scale mixing, proportionally mix all the components to confirm compatibility.
- Thorough mixing of all blends is important.
- Temperature and storage time can influence the degree of success.
- Mix only the amount that will be immediately used.
- Long-term storage with pesticides is not recommended.

THE FOLLOWING CONDITIONS MUST BE OBSERVED TO APPLY NACHURS LIQUID FERTILIZER FOR FOLIAR APPLICATIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THE PLANTS.

- **DO** use NACHURS fertilizers under conditions of optimum plant growth including highest humidity, moderate temperature and adequate soil moisture.
- **DO** add, as a minimum, equal amounts of water. Do use sufficient water to provide thorough coverage.
- **DO** consult with your local NACHURS District Sales Manager to determine pesticides which are compatible with NACHURS fertilizer.

Mixing Instructions:

- Fill tank with 1/2 of the needed base liquid fertility, if using an induction system simply induct the **NACHURS Sideline** while filling your base liquid fertility tank.
- Start agitation/recirculation and add the prescribed amount of **NACHURS Sideline**; continue agitation/recirculation during filling and application.
- Add the remaining base liquid fertility and any other products allowing adequate time to insure complete mixing.
- **CAUTION WHEN MIXING WITH UAN:** The temperature of UAN solution, outside air temperature, and storage time can influence successful mixing of the final solution. In the event of UAN being below 50 degrees, use sufficient water to provide thorough mixing of the solution. A ratio of 1:1 water to **NACHURS Sideline** is highly recommended.

Foliar Application:

Foliar feeding is one of the most efficient methods of supplying nutrients during critical growing stages. NACHURS foliar fertilizers provide available N-P-K and chelated micronutrients to make a good crop even better or it can supply a deficient, stressed crop the proper nutrients for a quick recovery. These products can also be customized and combined to ensure crop success.

NACHURS foliar are manufactured with the highest quality raw materials on the market today and includes only available, chelated micronutrients to maximize foliar absorption. NACHURS foliar can also be safely mixed with most insecticides, herbicides, and fungicides to help maximize yield potential (please follow proper mixing instructions).

Product Storage Recommendations:

- Storage in poly, fiberglass, stainless, or lined/coated steel tanks to prevent possible product discoloration. Storage in flat bottom tanks is recommended during winter months. Bubble, recirculate, and/or agitate material before usage in all instances. Material stored in cone bottom tanks (although not recommended) will require longer recirculation after winter to regain product consistency.
- **DO NOT STORE OR TRANSPORT ANY PRODUCT IN ALUMINUM, OR GALVANIZED STEEL TANKS**

Mixing Procedure:

- Add ½ of total water to spray tank
- Start recirculation in the tank
- Add crop protection products" after the recirculation.
- Add micronutrients and or any other flowable material.
- Add any soluble powder first pre-mixing with water.
- Add the recommended amount of micronutrients and flowables.
- Add remaining water volume and continue recirculation prior to spraying.

- **DO** add wettable or soluble powders, emulsifiables or flowables to water in the mix and wet, dissolve or disperse before adding NACHURS fertilizer.
- **DO** consult your local NACHURS District Sales Manager for rate and application instructions.
- **DO** use a small jar or container prior to full scale mixing to proportionally mix all the components to confirm compatibility.
- **DO NOT** use when the crop is under stress from pests, heat or inadequate soil moisture.
- **DO NOT** use when the crop is under stress.
- **DO NOT** apply during the heat of the day.

- **DO NOT** apply by aircraft if surface wind is greater than five miles per hour to assure adequate crop coverage and droplet disposition.
- **DO NOT** spray to run off. Do not spray to visible droplet coalescence. Do not allow concentrated spray mist to run off fruit or leaves.
- **DO NOT** mix with calcium containing products unless the calcium is fully EDTA chelated.
- **DO NOT** mix fertilizers with hard water. Mixing with hard water may cause clogging of lines due to the combining of calcium, magnesium and iron in the water with phosphate in the fertilizer.