NACHURS®

Rhyzo-Link® 9-15-3

PREMIUM LIQUID STARTER & FOLIAR FERTILIZER

PATENTED POTASSIUM ACETATE TECHNOLOGY

rhyzo-LINK®

NUTRIENTS SUPPLIED (pounds per gallon):

Total Nitrogen (N)	0.94
Available Phosphate (P_2O_5)	1.56
Soluble Potash (K_2O)	0.31
Sulfur (S)	0.104
Zinc (Zn)	0.026

Derived from: ammonium thiosulfate, ammonium hydroxide, urea, phosphoric acid, potassium acetate, potassium hydroxide, and zinc EDTA.

POWERED BY bio-K®

PRODUCT PROPERTIES:

Analysis:	9-15-3-1S-.25Zn
Weight:	10.4 lbs. per gallon
Specific gravity:	1.25 kg/L
pH:	7.0 – 7.6
Appearance:	clear, straw-colored liquid
Odor:	Slight ammonia with sweet/ earthy overtones

NOTE: Store in cool area (40° to 110°F) out of direct sunlight

GENERAL PRODUCT INFORMATION:

Rhyzo-Link® 9-15-3 with PGPR Technology is manufactured with the highest quality raw materials on the market today, which once applied to the rhizosphere and/or phyllosphere and absorbed by the plant, helps to promote a healthy plant with a more pronounced root system, and ultimately helps to improve crop yield and productivity. One hundred percent (100%) of the phosphate is present in the orthophosphate form which is immediately available for plant absorption and incorporation into metabolic processes. During times of limited phosphate and potassium availability (i.e. cold and wet spring soil conditions present at planting), **Rhyzo-Link® 9-15-3** with PGPR Technology provides a phosphate and potassium source that is positionally and nutritionally available for immediate uptake. PGPR Technology also aids in nutrient access capability through promotion of lateral root and root hair development and production of nutrient dissolving compounds (organic acids and phytase/phosphatase enzymes) within the root zone and rhizosphere. This leads to increased nutrient use efficiency and greater plant productivity.

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

WARNING: RHYZO-LINK® 9-15-3 IS NOT COMPATIBLE WITH UAN SOLUTIONS, 28% OR 32%. DO NOT MIX THE TWO PRODUCTS TOGETHER.

TO ENSURE OPTIMUM PERFORMANCE, AGITATE AND/OR BUBBLE TANKS PRIOR TO USE, REGARDLESS OF TEMPERATURE OR HOW LONG PRODUCT HAS BEEN SITTING.

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. NOT RECOMMENDED FOR USE AS AN IN-FURROW FERTILIZER TREATMENT ON COTTON.

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.

visit us online: www.nachurs.com

IN-FURROW RECOMMENDATIONS*:

Row Width:	CEC:	%OM:	Max Gals/A:
CORN:			
30-40"	18↑	3.0↑	6
30-40"	15↑	2.5	5
30-40"	10↑	2.0	4
30-40"	9.9↓	2.0	3
20-22"	18↑	3.0↑	8
20-22"	15↑	2.5	7
20-22"	10↑	2.0	5
20-22"	9.9↓	2.0	4
15"-Twin Row	18↑	3.0↑	12
15"-Twin Row	15↑	2.5	10
15"-Twin Row	10↑	2.0	8
15"-Twin Row	9.9↓	2.0	6
WHEAT, BARLEY, RYE, AND OATS:			
6-8"			8-10
SUNFLOWERS:**			
30"	18↑	3.0↑	5
30"	17.9-15.0	2.9-2.0	4
30"	14.9↓	1.9↓	3
MILO:**			
30"	18↑	3.0	5
30"	15↑	2.5	4
30"	10↑	2.0	3
30"	9.9↓	2.0	2.5
SUGAR BEETS:			
22"	18↑	3.0↑	3
22"	12-7.9	2.9↓	3
ALFALFA (NEW SEEDING):			
			5
POTATOES:			
			4-10

Product should be placed so potato seed piece drops into fertilizer.

If applied at rates below 3 gallons per acre in-furrow, the effective rate of PGPR will not have been met.

****Use a Y splitter with significant pressure to ensure Rhyzo-Link® 9-15-3 liquid fertilizer is placed accurately.**

FOLIAR FEEDING GENERAL GUIDELINES*:

CORN: 1-3 gallons per acre. Foliar apply at the 3rd-5th leaf collar.

SOYBEANS: 1-3 gallons per acre. Foliar apply at the 4th-6th trifoliate, and then 80-85% podset.

SMALL GRAINS (INCLUDING CEREALS), DRY BEANS, SUGAR BEETS AND OTHER ROW CROPS: 1-3 gallons per acre. Consult your NACHURS distributor or agronomist for specific fertility recommendations.

VEGETABLE CROPS: Use 1-2 gallons per acre with 8-10 gallons of water every 7-10 days on vegetable crops starting 10-15 days after transplant or at 2"-5" tall on seeded crops.

FRUIT TREES: Use 1 gallon with 8-10 gallons of water starting at bud swell in the spring and continue as needed.

TRANSPLANT SOLUTION:
Use 1 gallon per acre with 100 gallons of water at set out.

RHYZO-LINK® WITH PGPR TECHNOLOGY

Rhyzo-Link® 9-15-3 with PGPR (Plant Growth Promoting Rhizobacteria) Technology is a new and improved nutritional product, comprised of primary plant nutrients, sulfur, and fully chelated zinc. PGPR Technology is unique to the marketplace; it is a pure culture, multi-strain, poly-microbial component formulated to enhance fertility solutions for use in a wide range of environmental conditions. Rhyzo-Link® solutions have the ability to improve nutrient utilization which helps the plant to better tolerate biotic and abiotic interactions. This is done through the production and ultimate release of secondary metabolites (i.e. enzymes, lipopeptides, biosurfactants, etc.) into the rhizosphere which then impact plant processes such as nutrient availability, root hair proliferation, and systemic mechanisms, just to name a few. **Rhyzo-Link® 9-15-3** liquid fertilizer with PGPR Technology truly is an easy to use "Bio-Charged" fertility solution.

NACHURS® Rhyzo-Link® 9-15-3 CONTAINS NON-PLANT FOOD INGREDIENTS:
This Rhyzo-Link® product contains the following colony forming units (cfu)
2,005,000 cfu/milliliter
7,589,727,000 cfu/gallon

Bacillus subtilis	$5x10^5$ cfu/ml
Bacillus methylotrophicus	$5x10^5$ cfu/ml
Bacillus amyloliquefaciens	$5x10^5$ cfu/ml
Bacillus megaterium	$5x10^5$ cfu/ml
Bacillus licheniformis	$5x10^3$ cfu/ml

cfu/ml = colony forming units/milliliter

POWERED BY bio-K®

PATENTED

ELEVATE YOUR K® with NACHURS® Bio-K®

- A premium source of potassium fertilizer combined with a natural plant metabolite
- Most effective and efficient source of potassium
- Increased plant health and plant vigor resulting in maximum yield potential

NACHURS® GENERAL RECOMMENDATIONS

100% ORTHOPHOSPHATE LIQUID FERTILIZERS

IN-FURROW APPLICATION

NACHURS liquid fertilizer placed on or near the seed at planting time can stimulate early root growth and strengthen young plants. See the reverse side for recommended rates of NACHURS fertilizer. Consult with your authorized NACHURS Dealer or NACHURS District Sales Manager for specific fertility recommendations.

Additives to In-Furrow Applications

In furrow placement of other crop enhancement products is greatly facilitated once the NACHURS application kit for the application of NACHURS starter products is installed on the planting implement. Crop protection products, biologicals, or plant growth supplements can often be added to the starter product for a very efficient and accurate method in applying these other products. All tank mixes should be tested for physical and performance compatibility before use. Consult with your NACHURS retailer or NACHURS District Sales Manager before using such mixes. The addition of an NACHURS Injection kit to the NACHURS application kit is often required to ensure product compatibilities.

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

NACHURS programs offer the following foliar products: micronutrients, N-P-K fertilizers, and slow release nitrogen products.

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 mix with many crop production products. Some non-100% EDTA chelates may 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 is not suggested.

MIXING PROCEDURE

- Add ½ of total water to spray tank
- Start recirculation in the tank
- Add micronutrients and or any other flowable material
- Add any soluble powder first pre-mixing with water
- Add the recommended amount of **NACHURS** liquid fertilizer
- Add remaining water volume and continue recirculation prior to spraying

PRODUCT STORAGE CONTAINER 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

THE FOLLOWING CONDITIONS MUST BE OBSERVED IN ORDER 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.
- **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** 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** APPLY DURING THE HEAT OF THE DAY.
- **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.