

Product Catalog

Premium Liquid Fertilizers Since 1946



2026–2027

start
finish² bio-K[®]



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About NACHURS®

NACHURS® is a liquid fertilizer brand that has revolutionized farming practices since 1946. Offering high quality precision-placed, seed-safe liquid starters and the latest technologies for maximum and sustainable yield potential.

With seven manufacturing locations across North America, NACHURS® is well positioned to service the growing market and help growers maximize their crop's potential.

Patented Technology Overview



Premium source of potassium fertilizer combined with a natural plant metabolite; the most effective and efficient source of potassium. Leading to quicker germination, improved root development, and an elevated abiotic stress tolerance.

NACHURS® Rhyzo-Link® is a Proprietary Plant Growth Promoting Rhizobacteria (PGPR) technology, delivering the highest concentration of multi-strain, pure culture rhizobacteria.



NACHURS® Aqua-Tech® is a unique polyamine technology that allows for greater plant productivity through fertigation systems, delivering highly available low-salt nutrients safely and precisely.

NACHURS® ENDURO-SHIELD® technology is a purified high quality, marine macroalgae extract product obtained from *Ascophyllum nodosum* with gene expression, growth promotant, and stress mitigation properties.



NACHURS® Bio-K® Story

THE PROBLEM

An alarming trend of declining potassium levels and lack of availability at key demand times.

THE RESULT

With the combination of higher yields, newer genetics, production practices, reduced tillage, and decreasing potassium levels in your soil, farmers are jeopardizing plant structure, plant health and stress tolerance which negatively affects yield potential, decreases harvest efficiency and profitability.

THE SOLUTION



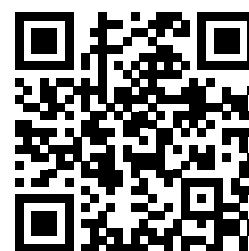
NACHURS® innovative potassium technology Bio-K® will address these costly issues. NACHURS Bio-K® is a proven technology that is more efficient and readily taken up by the plant better than any other potassium source in the market today.

GROWER BENEFITS

- Multiple application methods
- Non-corrosive to equipment
- Mixability with crop protection products
- Product flexibility

CROP BENEFITS

- Seed safe
- Improves nutrient use efficiency
- Improves plant health and stress
- Highest K solubility
- Reduces water loss and wilting
- Increases photosynthesis
- Balanced plant nutrition



Scan to learn more about Bio-K!

Generations of America's farmers have used NACHURS liquid fertilizers because it is a quality brand they can trust. NACHURS Bio-K products offer the latest technology advancements farmers need to take their crops to the next level.

**start
finish²**
The NACHURS
Bio-K System
for Maximizing Crop Yields

Simple yet effective, profitable yet sustainable, **Start2Finish®** is a comprehensive liquid fertilizer system to maximize your crop's potential.



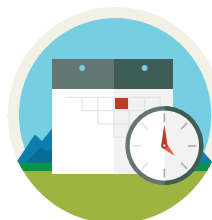
RIGHT SOURCE

Matches fertilizer type to crop needs.



RIGHT RATE

Matches amount of fertilizer to crop needs.



RIGHT TIME

Makes nutrients available when crops need them.



RIGHT PLACE

Keeps nutrients where crops can use them.



NACHURS® GENERAL RECOMMENDATIONS

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

GENERAL PRODUCT STORAGE CONTAINER RECOMMENDATIONS

- **WHITE PRODUCTS:** 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.
- **GREEN PRODUCTS:** 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.



**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)0.74
 Available Phosphate (P₂O₅).....1.91
 Soluble Potash (K₂O).....0.64

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

PRODUCT PROPERTIES:

Analysis:.....7-18-6
Weight:.....10.6 lbs. per gallon
Specific gravity:.....1.27 kg/L
pH:6.0–7.0
Appearance:.....Clear, water white liquid
Odor:.....No odor, or mild ammonia

GENERAL PRODUCT INFORMATION:

NACHURS First Down liquid fertilizer is manufactured by utilizing quality raw materials including ammonium hydroxide, urea, phosphoric acid, potassium acetate, and potassium hydroxide to provide a very agronomically efficient source of N-P-K. The quality of the raw materials used to formulate **NACHURS First Down** liquid fertilizer:

- Maximizes plant nutrient solubility
- Minimizes salt index
- Minimizes equipment corrosion
- Allows good cold weather storage
- Is plant safe at recommended rates

One hundred percent of the phosphate is present in the orthophosphate form that is immediately available for plant absorption and metabolism. During times of limited phosphate and potassium availability (eg: cold and wet spring soil conditions present at planting), **NACHURS First Down** liquid fertilizer provides a phosphate and potassium source that is positionally and nutritionally available.

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

WARNING: **NACHURS First Down** is not compatible with UAN solutions, 28% OR 32%. Do not mix the two products together.

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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Visit us online: www.nachurs.com



NACHURS First Down®

Premium Liquid Starter & Foliar Fertilizer

PATENTED
POTASSIUM ACETATE
TECHNOLOGY

IN-FURROW RECOMMENDATIONS*:

Row Width	CEC:	% OM:	MAX Gal/Ac:
CORN:			
36"–40"	18↑	3.0↑	5
36"–40"	15↑	2.5↑	4
36"–40"	10↑	2.0↑	3
36"–40"	9.9↓	2.0↑	2
30"	18↑	3.0↑	6
30"	15↑	2.5	5
30"	10↑	2.0	4
30"	9.9↓	2.0	3
20–22"	18↑	3.0↑	9
20–22"	15↑	2.5	7.5
20–22"	10↑	2.0	6
20–22"	9.9↓	2.0	4.5
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
SOYBEANS**			
6–8"	12↑	2.0	2–5

WHEAT, BARLEY, RYE, AND OATS:			
6–8"		8–10	
0"	18↑	3.0↑	5
30"	17.9–15.0	2.9–2.0	4
30"	14.9↓	1.9↓	3
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
ALFALFA (NEW SEEDING):			
			5
POTATOES			
			4–10

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

****Use a Y splitter with significant pressure to ensure NACHURS First Down liquid fertilizer is placed accurately.**

FOLIAR FEEDING GENERAL GUIDELINES*:**Corn:**

1–3 gallons per acre. Foliar apply at 3rd–5th leaf collar.

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.

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 foliar.

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.

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

US Patent # 10,508,060

PATENTED

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N) 0.86
Available Phosphate (P₂O₅) 2.27
Soluble Potash(K₂O) 0.54

Derived from: Ammonium Hydroxide, Urea, Phosphoric Acid, Potassium Acetate, and Potassium Hydroxide.

PRODUCT PROPERTIES:

Analysis: 8-21-5
Weight: 10.85 lbs. per gallon
Specific gravity: 1.30 kg/L
pH: 6.5–7.0
Appearance: Clear, light green liquid
Odor: No odor, or mild ammonia

GENERAL PRODUCT INFORMATION:

NACHURS Green Flag liquid fertilizer is manufactured by utilizing quality raw materials including ammonium hydroxide, urea, phosphoric acid, potassium acetate, and potassium hydroxide to provide a very agronomically efficient source of N-P-K. The quality of the raw materials used to formulate **NACHURS Green Flag** liquid fertilizer:

- Maximizes plant nutrient solubility
- Minimizes salt index
- Minimizes equipment corrosion
- Allows good cold weather storage
- Is plant safe at recommended rates

Ninety percent of the phosphate is present in the orthophosphate form that is immediately available for plant absorption and metabolism. During times of limited phosphate and potassium availability (eg: cold and wet spring soil conditions present at planting), **NACHURS Green Flag** liquid fertilizer provides a phosphate and potassium source that is positionally and nutritionally available.

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

WARNING: **NACHURS GreenFlag** is not compatible with UAN solutions, 28% OR 32%. Do not mix the two products together.

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.

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NACHURS Green Flag®

Premium Liquid Starter & Foliar Fertilizer

PATENTED
POTASSIUM ACETATE
TECHNOLOGY

IN-FURROW RECOMMENDATIONS*:

Row Width	CEC:	% OM:	MAX Gal/Ac:
CORN:			
36"–40"	18↑	3.0↑	5
36"–40"	15↑	2.5↑	4
36"–40"	10↑	2.0↑	3
36"–40"	9.9↓	2.0↑	2
30"	18↑	3.0↑	6
30"	15↑	2.5	5
30"	10↑	2.0	4
30"	9.9↓	2.0	3
20–22"	18↑	3.0↑	9
20–22"	15↑	2.5	7.5
20–22"	10↑	2.0	6
20–22"	9.9↓	2.0	4.5
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
SOYBEANS**			
6–8"	12↑	2.0	2–5

WHEAT, BARLEY, RYE, AND OATS:			
6–8"		8–10	
0"	18↑	3.0↑	5
30"	17.9–15.0	2.9–2.0	4
30"	14.9↓	1.9↓	3
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
ALFALFA (NEW SEEDING):			
			5
POTATOES			
			4–10
Product should be placed so potato seed piece drops into fertilizer.			

Use a Y splitter with significant pressure to ensure **NACHURS First Down® liquid fertilizer is placed accurately.

FOLIAR FEEDING GENERAL GUIDELINES*:**Corn:**

1–3 gallons per acre. Foliar apply at 3rd–5th leaf collar.

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.

Small Grains (including Cereals), Dry Beans, Sugar Beets and other Row Crops:

1–3 gallons per acre foliar.

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.

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

US Patent # 10,508,060

PATENTED

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)1.06
 Available Phosphate (P₂O₅)1.91
 Soluble Potash (K₂O)0.42

Derived from: Ammonium Hydroxide, Urea, Phosphoric Acid, Potassium Acetate, and Potassium Hydroxide.

PRODUCT PROPERTIES:

Analysis:10-18-4
Weight:10.6 lbs. per gallon
Specific gravity:1.27 kg/L
pH:6.5–7.0
Appearance:Clear, water white liquid
Odor:No odor, or mild ammonia

GENERAL PRODUCT INFORMATION:

NACHURS imPulse liquid fertilizer is manufactured by utilizing quality raw materials including ammonium hydroxide, urea, phosphoric acid, potassium acetate, and potassium hydroxide to provide a very agronomically efficient source of N-P-K. The quality of the raw materials used to formulate

NACHURS imPulse liquid fertilizer:

- Maximizes plant nutrient solubility
- Minimizes salt index
- Minimizes equipment corrosion
- Allows good cold weather storage
- Is plant safe at recommended rates

One hundred percent of the phosphate is present in the orthophosphate form that is immediately available for plant absorption and metabolism. During times of limited phosphate and potassium availability (eg: cold and wet spring soil conditions present at planting), **NACHURS imPulse** liquid fertilizer provides a phosphate and potassium source that is positionally and nutritionally available.

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

WARNING: NACHURS imPulse is not compatible with UAN solutions, 28% OR 32%. Do not mix the two products together.

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.

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NACHURS imPulse®

Premium Liquid Starter & Foliar Fertilizer

PATENTED
POTASSIUM ACETATE
TECHNOLOGY

IN-FURROW RECOMMENDATIONS*:

Row Width	CEC:	% OM:	MAX Gal/Ac:
CORN:			
36"–40"	18↑	3.0↑	5
36"–40"	15↑	2.5↑	4
36"–40"	10↑	2.0↑	3
36"–40"	9.9↓	2.0↑	2
30"	18↑	3.0↑	6
30"	15↑	2.5	5
30"	10↑	2.0	4
30"	9.9↓	2.0	3
20–22"	18↑	3.0↑	9
20–22"	15↑	2.5	7.5
20–22"	10↑	2.0	6
20–22"	9.9↓	2.0	4.5
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
SOYBEANS**			
6–8"	12↑	2.0	2–5

WHEAT, BARLEY, RYE, AND OATS:			
6–8"		8–10	
0"	18↑	3.0↑	5
30"	17.9–15.0	2.9–2.0	4
30"	14.9↓	1.9↓	3
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
ALFALFA (NEW SEEDING):			
			5
POTATOES			
			4–10
Product should be placed so potato seed piece drops into fertilizer.			

**Use a Y splitter with significant pressure to ensure NACHURS imPulse liquid fertilizer is placed accurately.

FOLIAR FEEDING GENERAL GUIDELINES*:**Corn:**

1–3 gallons per acre. Foliar apply at 3rd–5th leaf collar.

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.

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 foliar.

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.



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- 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

US Patent # 10,508,060

PATENTED

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N).....0.45
Available Phosphate (P₂O₅).....1.46
Soluble Potash (K₂O).....1.91
Sulfur (S).....0.11

Derived from: Urea, Ammonium Hydroxide, Ammonium Thiosulfate, Phosphoric Acid, Potassium Hydroxide, and Potassium Acetate.

PRODUCT PROPERTIES:

Analysis:.....4-13-17-1S
Weight:.....11.25 lbs. per gallon
Specific gravity:.....1.35 kg/L
pH:.....7.0-7.6
Appearance:.....Nearly colorless

GENERAL PRODUCT INFORMATION:

NACHURS Triple Option liquid fertilizer is manufactured by utilizing quality raw materials including ammonium hydroxide, urea, phosphoric acid, potassium acetate, and potassium hydroxide to provide a very agronomically efficient source of N-P-K-S. The quality of the raw materials used to formulate **NACHURS Triple Option** liquid fertilizer:

- Maximizes plant nutrient solubility
- Minimizes salt index
- Minimizes equipment corrosion
- Allows good cold weather storage
- Is plant safe at recommended rates

One hundred percent of the phosphate is present in the orthophosphate form that is immediately available for plant absorption and metabolism. During times of limited phosphate and potassium availability (eg: cold and wet spring soil conditions present at planting), **NACHURS Triple Option** liquid fertilizer provides a phosphate and potassium source that is positionally and nutritionally available.

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.

WARNING: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

WARNING: **NACHURS Triple Option** is not compatible with UAN solutions, 28% OR 32%. Do not mix the two products together.

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NACHURS Triple Option®

Premium Liquid Starter & Foliar Fertilizer

IN-FURROW RECOMMENDATIONS*:

Row Width:	CEC:	%OM:	Max Gals/A:
CORN:			
36"-40"	18↑	3.0↑	5
36"-40"	15↑	2.5↑	4
36"-40"	10↑	2.0↑	3
36"-40"	9.9↓	1.9↓	2
30"	18↑	3.0↑	6
30"	15↑	2.5	5
30"	10↑	2.0	4
30"	9.9↓	2.0	3
20-22"	18↑	3.0↑	9
20-22"	15↑	2.5	7.5
20-22"	10↑	2.0	6
20-22"	9.9↓	2.0	4.5
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
SOYBEANS**:			
30"-40"	18↑	3.0↑	2
30"-40"	12-18	2.0↑	1.5
30"-40"	6-11.9	2.0↓	1
22"	18↑	3.0↑	3
22"	12-18	2.0↑	2.5
22"	6-11.9	2.0↓	1.5
6-8"	12↑	2.0↑	5
6-8"	6-11.9	2.0↓	3
COTTON**:			
30"-40"	10↑	2.0↑	2.5
30"-40"	9.9↓	2.0↓	2
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

PATENTED
POTASSIUM ACETATE
TECHNOLOGY

Row Width:	CEC:	%OM:	Max Gals/A:
ALFALFA (NEW SEEDING):			
		5	
SUGAR BEETS:			
22"	18↑	3.0↑	3
22"	12-7.9	2.9↓	3
EDIBLE BEANS**:			
22"	18↑	3↑	2.5-3
22"	17.9↓	2.9↓	2.5-3
POTATOES:			
			4-10
Product should be placed so potato seed piece drops into fertilizer			

**Use a Y splitter with significant pressure to ensure NACHURS Triple Option liquid fertilizer is placed accurately.

FOLIAR FEEDING GENERAL GUIDELINES*:

- Corn:**
1-3 gallons per acre. Foliar apply at 3rd-5th leaf collar.
- Cotton:**
1-3 gallons per acre foliar.
- 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.
- 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 foliar.
- Peanuts:**
2 gallons per acre anytime after pegging.
- Tobacco:**
Use 1-2 gallons per 100 gallons transplant solution. Foliar apply at layby and again after topping.
- Hay/Forage:**
1-3 gallons per acre foliar.
- Sweet Potatoes:**
1-2 gallons per acre foliar anytime additional N-P-K-S is needed.
- Potatoes:**
2-3 gallons per acre foliar anytime additional N-P-K-S is needed.
- Pecans:**
2 gallons per acre at bud break and continue as needed.
- Citrus:**
2 gallons per acre in April with seasonal sprays.
• 2 gallons per acre in June with seasonal sprays.
• 2 gallons per acre August with seasonal sprays.
- Additional Fruit Trees:**
1 gallon per acre with 8-10 gallons of water starting at budswell and continue as needed.

TRANSPLANT SOLUTION:

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



POWERED BY

bio-K®

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

US Patent # 10,508,060

PATENTED

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)	0.995
Soluble Potash (K ₂ O)	0.995
Boron (B)	0.025

Derived from: Urea, Urea-Triazone, Potassium Acetate, and Boric Acid

25% of total nitrogen is from slowly available nitrogen (urea-triazone)

100% of the total potassium found in NACHURS NocKout® is from NACHURS Bio-K®.

PRODUCT PROPERTIES:

Analysis:	10-0-10-25B
Weight:	9.95 lbs. per gallon
Specific gravity:	1.19 kg/L
pH:	7.7 - 8.7
Appearance:	Clear to translucent, nearly colorless
Odor:	Mild ammonia

GENERAL PRODUCT INFORMATION:

NACHURS NocKout® is a new and improved foliar nitrogen product, with boron and the latest in potassium uptake technology, Bio-K®. **NACHURS NocKout®** is manufactured with the highest quality raw materials on the market today, which once absorbed by the plant helps to promote a healthier plant and root system, and ultimately helps to improve crop productivity. **NACHURS NocKout®** is well adapted to all cropping and management systems, including but not limited to row crops, vegetables, fruit, tree, and turf/ornamentals.

- Maximizes plant nutrient absorption through the use of urea-triazone and Bio-K® technology.
- Minimizes salt-index providing safe foliar use.
- Minimizes equipment corrosion.
- Is plant safe at recommended rates.
- May be used with crop protection products such as glyphosate.

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

This product is not intended for long-term storage; use within six (6) months for best results. Due to the unpredictable storage stability of the slow release nitrogen molecule, Nachurs Alpine Solutions will not warrant product quality or performance in excess of six (6) months from date of purchase.

KEEP OUT OF REACH OF CHILDREN.

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NACHURS NocKout®

Premium Liquid Foliar Fertilizer

RECOMMENDED APPLICATION RATES:**FIELD CROPS:**

Alfalfa: Apply 1 – 2 gal/ac after each cutting when sufficient foliage is present.

Beans (Dry): Apply 1 – 2 gal/ac at early flower and repeat in 10 – 14 days.

Blueberries: Apply 4 – 6 qt/ac in 10 – 14 day intervals prior to fruiting.

Caneberries: Apply 4 – 6 qt/ac prior to fruit set.

Canola: Apply 1 – 2 gal/ac prior to bolting.

Cantaloupes: Apply 6 – 10 qt/ac per acre at early flowering and repeat in 7 – 10 days.

Cherries: Apply 4 – 6 qt/ac prior to fruit set.

Citrus: Apply 4 – 6 qt/ac at early bloom and repeat after fruit set.

Corn (seed, field, sweet): Apply 1 – 3 gal/ac during vegetative stages with pesticides if required. Apply 1 – 2 gal/ac at tasseling and again after pollination with fungicide/insecticides.

Cotton: Apply 1 – 2 gal/ac at first bloom, repeat in 7 – 10 day intervals as required.

Cranberries: Apply 4 – 6 qt/ac at hook stage and repeat after fruit set.

Cucumbers: Apply 1 – 2 gal/ac at early flowering and repeat at 10 – 14 day intervals.

Grain Sorghum: Apply 1 – 3 gal/ac after pollination.

Grass (Hay): Apply 1 – 3 gal/ac after green up. Repeat process for each additional cutting to meet N and K requirements. Do not apply to drought stressed grass.

Hops: Apply 1 – 2 gal/ac before cone development.

Lentils: Apply 4 – 6 qts. per acre at early flowering and repeat at 10 – 14 day intervals.

Lettuce: Apply 4 – 6 qt/ac after thinning, then repeat at early head formation. Repeat again at 10 – 14 day intervals as required.

Onions: Apply 4 – 6 qt/ac at mid-set development and repeat at 14 – 21 day intervals.

Pasture (Grazing): Apply 2 – 3 gal/ac (depending soil fertility and nutrient requirements) every 30 – 45 days or following pasture rotation. Do not apply to drought stressed grass.

Peaches: Apply 1 – 2 gal/ac prior to fruit set.

Peanuts: Apply 4 – 6 qt/ac at early bloom and repeat at 14 – 21 day intervals until pods are filled.

Peppers: Apply 4 – 6 qt/ac at early fruit set and repeat in 10–14 days.

Plums: Apply 6 – 10 qt/ac per acre prior to fruit set.

Rice: Apply 1 – 3 gal/ac at panicle emergence.

Small Grains (wheat, barley, oats): Apply 2–4 gal/ac at spring greenup to early joint (Feekes 8) as partial replacement of soil-applied N. Apply 1 – 3 gal/ac at or near flag leaf stage as N or K supplement.

Soybeans: Apply 1 – 3 gal/ac at V6 – R4 stage as a N and K supplement in high yield environments. These applications can be combined with fungicides as needed.

Spinach: Apply 6 – 10 qt/ac when sufficient foliage is present and repeat in 14 – 21 days.

Strawberries: Apply 2 – 4 qt/ac at early flowering. Repeat every 14 days.

Sugar Beets: Apply 2 gal/ac at the 10 – 12 leaf stage and repeat at the 20 leaf stage.

Sunflower: Apply 1 – 2 gal/ac to stimulate early plant growth and again at seed fill. May be combined with insecticide applications.

Sweet Potatoes: Apply 4 – 6 qt/ac at tuber initiation and repeat in 10 – 14 days.

Tobacco: Apply 1 – 2 gal/ac at plant bed stage to near maturity as needed to maintain plant growth and quality.

Tomatoes (Process): Apply 4 – 6 qt/ac at full bloom and repeat at 10 – 14 day intervals.

Watermelons: Apply 1 – 2 gal/ac at early flowering and repeat in 7 – 10 days increments to maintain plant growth and quality. Can be combined with fungicide applications.

TURF:

Turf, Bent Grass: Apply 4.5 – 6.8 lbs. of N per 1,000 sq. ft./year. May apply in multiple applications of 0.125 to 0.25 lbs. of Nitrogen.

Turf, Bermuda Grass: Apply 9.0–11.5 lbs of N per 1,000 sq.ft./year. May apply in multiple applications of 0.25 lbs. to 0.5 lbs. of Nitrogen.

Ground Application:

Apply with a minimum of 5 gallons of water per acre or more to insure good coverage.

Aerial Application:

May be used un-diluted but it is recommended to use adequate water to insure good coverage.

- **NACHURS NocKout®** liquid fertilizer is best used as a supplement to a good fertility program. Check with your NACHURS Agronomist or Sales Manager for rates on other crops.

MIXING INSTRUCTIONS:

NACHURS NocKout® liquid fertilizer can mix with many crop production products including glyphosate.

- 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 degree of success.
- Mix only the amount that will be immediately used.
- Long-term storage is not suggested.

NACHURS NocKout® liquid fertilizer tank mixing procedures:

- Add ½ of total water to spray tank
- Add any chemicals (i.e. pesticides, herbicides)
- Start recirculation in the tank
- Add recommended amount of NACHURS NocKout® liquid fertilizer
- Add micronutrients and or any other flowable material
- Add any soluble powder, first pre-mixing with water
- Add remaining water volume. Continue recirculation prior to spraying

FOLIAR FEEDING:

Foliar feeding is one of the most efficient methods of supplying nutrients during critical growing stages. **NACHURS NocKout®** provides available N-K-B to make a good crop even better or it can supply a deficient, stressed crop the proper nutrition for a quick recovery. **NACHURS NocKout®** is manufactured with the highest quality raw materials on the market today to maximize foliar absorption. **NACHURS NocKout®** can also be safely mixed with most insecticides, herbicides, and fungicides to help maximize yield potential (please follow proper mixing instructions). For more specific foliar guidelines, consult with your authorized NACHURS distributor or agronomist for fertility recommendations.

STORAGE REQUIREMENTS:

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 NocKout® APPLICATIONS.

FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN DAMAGE TO THE PLANTS:

- **DO** use NACHURS NocKout® liquid fertilizer under conditions of optimum plant growth including highest humidity, moderate temperature and adequate soil moisture.
- **DO** use sufficient water to provide thorough coverage.
- **DO** consult with your local NACHURS Agronomist or Sales Manager to determine pesticides which are compatible with NACHURS NocKout® liquid fertilizer.
- **DO** consult your local NACHURS Agronomist or 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 during the heat of the day.

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

US Patent # 10,508,060

PATENTED

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)	0.93
Available Phosphate (P₂O₅)	3.13
Soluble Potash (K₂O)	0.46
Sulfur (S)	0.23

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

PRODUCT PROPERTIES:

Analysis:	8-27-4-2S
Weight:	11.6 lb. per gallon
Specific gravity:	1.39 kg/L
pH:	6.0 – 6.8
Appearance:	Clear, light green liquid
Odor:	No odor to slight ammonia

GENERAL PRODUCT INFORMATION:

NACHURS Throwback is a low salt, N-P-K w/sulfur liquid fertilizer manufactured by utilizing raw materials which provide important nutrients for maximum plant growth and development. The raw materials used to formulate NACHURS Throwback liquid fertilizer:

- Maximizes plant nutrient solubility
- Minimizes salt index
- Minimizes equipment corrosion
- Allows good cold weather storage
- Is plant safe with proper placement (not in-furrow)
- Is plant safe at recommended rates

It is formulated to deliver a high proportion of polyphosphate for specific utilization in banding (i.e. 2x2) and/or strip-till applications, and is an alternative to 10-34-0 due to its more complete nutrient package.

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.

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NACHURS Throwback®

Premium Liquid Starter (Banded, Strip-Till, 2x2)

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.

FOLIAR FEEDING GENERAL GUIDELINES*:

Corn, Cotton: 1-2 gallons per acre foliar when plant phosphorus demand is high.

Small Grains (including Cereals), Dry Beans, Sugar Beets and other Row Crops: 1-2 gallons per acre foliar.

PRODUCT RECOMMENDATIONS:

Potassium: Potassium teams with nitrogen and sulfur to produce protein 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 starter 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 within the plant
- Aids in fighting diseases

Sulfur: Sulfur is an essential nutrient for corn 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.

NOT FOR IN-FURROW USE!

**MIXING INSTRUCTIONS:**

- Fill tank with 1/2 of the needed base liquid fertility, if using an induction system simply induct the **NACHURS Throwback** while filling your base liquid fertility tank.
- Start agitation/recirculation and add the prescribed amount of **NACHURS Throwback**; 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 Throwback** is highly recommended.

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

US Patent # 10,508,060

**NUTRIENTS SUPPLIED (pounds per gallon):**

Soluble Potash (K₂O)2.00
Sulfur (S).....0.63

Derived from: Potassium Acetate and Potassium Thiosulfate

PRODUCT PROPERTIES:

Analysis:0-0-19-6S
Weight:10.55 lbs. per gallon
Specific gravity:1.27 kg/L
pH:8.1-9.1
Appearance:Clear, nearly colorless

GENERAL PRODUCT INFORMATION:

NACHURS K-Flex fertilizer is designed to be blended with various other fertilizers to provide important nutrients at different times during the growing season which are needed to grow high-yielding crops. It can be mixed with APP (i.e. 10-34-0), UAN solutions and liquid urea solutions to provide two additional critical elements (Potassium and Sulfur) typically missing from base fertilizer products. **NACHURS K-Flex** fertilizer added to APP creates a starter blend that can be used as a foundation for planting in cold soils, especially in minimum or no-till environments. It can be blended with UAN solutions to create a strip-till/sidedress fertilizer that provides extra potassium and sulfur at a time when uptake of these nutrients is rapidly increasing. **NACHURS K-Flex** fertilizer can also be applied alone or blended with other nutrients to make an effective foliar fertilizer for forage crops, legumes, and small grains.

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

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NACHURS K-flex®

Premium Liquid Fertilizer

PRODUCT RECOMMENDATIONS:

Potassium: Potassium teams with nitrogen and sulfur to produce protein 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 starter 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 within the plant
- aids in fighting diseases

Sulfur: Sulfur is an essential nutrient for corn 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. **Foliar:** Apply by ground or air at a 2 to 8 quarts/acre rate in 3 to 10 gallons/acre of water on row crops. Specialty crops apply up to 4 quarts/acre for every 100 gallons of water.

Soil: Simply add the NACHURS K-Flex® directly to your 10-34-0 or 11-37-0 and you create a complete balanced starter ready to help you achieve your yield goals.

Blend with UAN or urea solutions per recommended ratios to avoid compatibility issues.

Fertigation -

Center Pivot - Apply 0.5 to 5 gallons/acre as needed.

Sprinkler - Trees, row crops and vegetables, apply 0.5 to 5 gallons/acre. Vines apply 0.5 to 4 gallons/acre.

Drip Irrigation - 0.5 to 5 gallons per application.

CUSTOM BLENDS USING NACHURS K-flex®:

STARTER BLEND RATIOS USING NACHURS K-flex		
Final Analysis	NACHURS K-flex	10-34-0
8-27-3-1S	1 gallon	4 gallons
SIDEDRESS BLEND RATIOS USING NACHURS K-flex		
Final Analysis	NACHURS K-flex	28% UAN
25-0-2-0.7S	1 gallon	8 gallons
FOLIAR BLEND RATIO USING NACHURS K-flex		
Final Analysis	NACHURS K-flex	21-0-0 Urea Solution
14-0-6-2S	1 gallon	2 gallons

*The blend analysis is not guaranteed and may vary according to mixing methods used.

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 manufacture or seller can result in crop damage. Use caution when applying fertilizer directly to the seed as injury may occur.

APPROVED FOR USE WITH Enlist One® herbicide technologies

- Provide additional plant nutrition without extra application cost
- Improves plant health and nutrient use efficiency
- Excellent tank mix compatibility, but always jar test for verification

XtendiMax™ is a trademarked product of Bayer. Enlist One® is a registered product of Corteva™.

MIXING INSTRUCTIONS:

- Fill tank with 1/2 of the needed material (water, 10-34-0, other fertilizer); if using an induction system simply induct the **NACHURS K-Flex** while filling your tank.
- Start agitation/recirculation and add the prescribed amount of **NACHURS K-Flex**; continue agitation/recirculation during filling and application.
- Add the remaining materials (water, 10-34-0, other fertilizers) 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 K-Flex® is recommended.

*When adding anything other than APP to **NACHURS K-Flex**, always jar test for compatibility.

**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

US Patent # 10,508,060



**NUTRIENTS SUPPLIED (pounds per gallon):**

Soluble Potash (K₂O).....1.65
Sulfur (S).....0.51

Derived from: Potassium Acetate and Potassium Thiosulfate

Also contains non-plant food ingredients: Humic Acid.

PRODUCT PROPERTIES:

Analysis:.....0-0-16-5S
Weight:.....10.3 lbs. per gallon
Specific gravity:.....1.235 kg/L
pH:.....8.5-9.5
Appearance:.....Dark brown/black liquid
Odor:.....Musty

GENERAL PRODUCT INFORMATION:

NACHURS K-flex MAX fertilizer is designed to be blended with various other fertilizers to provide important nutrients needed to grow high-yielding crops. It also contains humic acid which provides faster seed germination, increased root growth and nutrient uptake, and provides improved soil porosity and exchange capacity. **NACHURS K-flex MAX** can be mixed with APP (i.e. 10-34-0) and/or UAN solutions to provide two very critical plant nutrients - Potassium and Sulfur; typically missing from these base fertilizer products. **NACHURS K-flex MAX** fertilizer added to APP creates a starter blend that can be used as a foundation for planting in cold soils, especially in minimum or no-till environments. It can be blended with UAN solutions to create a strip-till/sidedress/basal fertilizer that provides extra potassium and sulfur, as well as humic acid, to help improve nitrogen use efficiency.

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.

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NACHURS K-flex® MAX

Premium Liquid Fertilizer

**PRODUCT RECOMMENDATIONS:**

Potassium: Potassium teams with nitrogen and sulfur to produce protein 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 starter 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 within the plant
- Aids in fighting diseases

Sulfur: Sulfur is an essential nutrient for corn 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.

Humic acids: are a diverse group of large, naturally occurring, biologically active organic molecules best utilized at-planting or in-season soil application. They help accelerate germination, increase root growth and nutrient uptake, as well as to improve soil structure, porosity, and microbial activity.

Rates: Simply add the **NACHURS K-flex MAX** directly to your 10-34-0 or 11-37-0 and you create a complete balanced starter ready to help you achieve your yield goals. 1.25 gal will supply 1 gal of plant nutrition and 0.25 gal humic acid.

Blend with UAN per recommended ratios to avoid compatibility issues.

Fertigation:

- **Center Pivot:** 1-2 gallons/acre as needed.
- **Drip Irrigation:** 1-2 gallons per application.

MIXING INSTRUCTIONS:

- Fill tank with 1/2 of the needed 10-34-0 or 11-37-0, if using an induction system simply induct the **NACHURS K-flex MAX** while filling your 10-34-0/11-37-0 tank.
- Start agitation/recirculation and add the prescribed amount of **NACHURS K-flex MAX**; continue agitation/recirculation during filling and application.
- Add the remaining 10-34-0 or 11-37-0 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 K-flex MAX** is recommended.

*When adding anything other than APP to **NACHURS K-flex MAX**, always jar test for compatibility.

CUSTOM BLENDS USING NACHURS K-flex MAX*:

STARTER BLEND RATIOS USING NACHURS K-flex MAX		
Final Analysis	NACHURS K-flex MAX	10-34-0
8-27.2-3.2-1S	1 gallon	4 gallons
STRIP-TILL/ SIDEDRESS BLEND RATIOS USING NACHURS K-flex MAX		
Final Analysis	NACHURS K-flex MAX	28% UAN
24.2-0-2.1-6S	1.25 gal	8 gallons
Final Analysis	NACHURS K-flex MAX	32% UAN
28.4-0-1.7-5S	1.25 gal	10 gallons

*The blend analysis is not guaranteed and may vary according to mixing methods used.

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 manufacture or seller can result in crop damage. Use caution when applying fertilizer directly to the seed as injury may occur.

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

US Patent # 10,508,060



**NUTRIENTS SUPPLIED (pounds per gallon):****Soluble Potash (K₂O)**.....2.55**Derived from:** Potassium Acetate.**PRODUCT PROPERTIES:****Analysis:**.....0-0-24**Weight:**.....10.65 lbs. per gallon**Specific gravity:**.....1.28 kg/L**pH:**.....9.5-10.5**Appearance:**.....Clear, colorless to pale yellow**Odor:**.....Slight sweet odor**GENERAL PRODUCT INFORMATION:**

NACHURS K-Fuel liquid fertilizer is a unique form of foliar potassium having superior foliar absorption over traditional forms of potassium. Unlike other liquid forms of potassium such as nitrates, hydroxides, thiosulfates or carbonates, **NACHURS K-Fuel** liquid fertilizer is not caustic or corrosive, resulting in safer foliar applications and less plant stress.

NACHURS K-Fuel liquid fertilizer small molecular size coupled with the plant's natural affinity for organic acids allows for a much higher degree of potassium absorption. For best results, apply **NACHURS K-Fuel** liquid fertilizer according to recommendations based on plant tissue or soil analysis.

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

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Visit us online: www.nachurs.com



NACHURS K-Fuel®

Premium Foliar Fertilizer

**APPLICATION INSTRUCTIONS:**

NACHURS K-Fuel liquid fertilizer can be used on all field and specialty crops to aid in correcting or preventing potassium deficiencies. Potassium requirements for most crops increase greatly during periods of rapid growth and fruit development. Application of **NACHURS K-Fuel** should be made based on soil and plant tissue analysis for potassium.

Foliar –

Apply by ground or air at a 2 to 12 quarts/acre rate in 3 to 10 gallons/acre of water on row crops. Specialty crops apply up to 6 quarts/acre for every 100 gallons of water.

Fertigation –

Center Pivot - Apply 0.5 to 5 gallons/acre as needed.

Sprinkler - Trees, row crops and vegetables, apply 0.5 to 5 gallons/acre. Vines apply 0.5 to 4 gal/ac.

Drip Irrigation - 0.5 to 5 gallons per application.

Soil –

Apply 1/2 to 5 gallons/acre with other fertilizers at planting time. When using with seed applied starters take into consideration the total amount of salt allowed for your soil type.

For recommendations regarding specific crops or applications consult your NACHURS DSM.

NACHURS will assume no liability for this product if crop damage or if plugged fertigation equipment occurs from its use. NACHURS always recommends a jar test for compatibility with irrigation water when used for fertigation.

PRODUCT BENEFITS:

- Formulated with NACHURS® Bio-K® for greater solubility and lowest salt index
- Provides safe application reducing plant stress
- Superior source of K
- Highly compatible with pesticides and other fertilizer
- High analysis
- Non caustic or corrosive

PRECAUTIONS:

May cause irritation or injury to eyes. Avoid contact with formulated product. Avoid prolonged exposure to vapor and spray mist. Harmful if swallowed.

To protect skin from exposure wear protective equipment such as rubber aprons, rubber gloves and boots. Wash thoroughly after handling. Always use product with adequate ventilation.

First Aid: In case of contact with eyes, immediately flush with water for at least 15 minutes. Seek medical attention if irritation occurs. In case of skin contact, flush with plenty of water. Seek immediate medical attention if irritation occurs.

Always wash contaminated clothing before reusing. If swallowed, give large amounts of water and induce vomiting. Seek medical attention.

APPROVED FOR USE WITH Enlist One® • Enlist Duo® herbicide technologies

- Provide additional plant nutrition without extra application cost
- Improves plant health and nutrient use efficiency
- Excellent tank mix compatibility, but always jar test for verification



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

US Patent # 10,508,060

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)	0.38
Available Phosphate (P₂O₅)	0.67
Soluble Potash (K₂O)	0.67
Boron (B)	0.0019
Cobalt (Co)	0.0003
Molybdenum	0.0005

Derived from: Urea, Phosphoric Acid, Potassium Hydroxide, Potassium Acetate, Boric Acid, Cobalt Sulfate, and Sodium Molybdate.

PRODUCT PROPERTIES:

Analysis:	4-7-7-0.02B- 0.0025Co-0.0005Mo
Weight:	9.64 lbs. per gallon
Specific gravity:	1.152 kg/L
pH:	5.50–7.0
Appearance:	Nearly colorless

GENERAL PRODUCT INFORMATION:

NACHURS Balance is a new and improved plant nutrition product for both soil and foliar application. It is comprised of available phosphorus in orthophosphate form as well as micronutrients (B, Co, Mo) that are involved in such things as cell division, sugar transport, and nitrogen assimilation.

NACHURS Balance also contains and is powered by the most soluble and available form of potassium on the market today: NACHURS® Bio-K®.

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.

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CAUTION: BORON AND/OR MOLYBDENUM IS TO BE USED WHERE SOIL TEST AND/OR TISSUE ANALYSIS INDICATE A DEFICIENCY, AND SHOULD NOT BE USED AT RATES IN EXCESS OF THE RATE RECOMMENDED BY A QUALIFIED INDIVIDUAL/ENTITY SUCH AS A CERTIFIED CROP ADVISOR, AGRONOMIST OR UNIVERSITY. EXCESSIVE APPLICATION OF BORON OR MOLYBDENUM MAY CAUSE CROP DAMAGE.

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NACHURS Balance®

Premium Liquid Fertilizer

**FOLIAR FEEDING GENERAL GUIDELINES*:****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.

Soybeans:

1-2 gallons per acre. Foliar apply at the 4th-6th trifoliolate, and then 80-85% podset.

Small grains (including cereals), dry beans, sugar beets and other row crops:

1-2 gallons per acre foliar.

Peanuts:

1-2 gallons per acre anytime after pegging.

Hay/Forage:

1-2 gallons per acre foliar.

Citrus:

- 2 gallons per acre in April with seasonal sprays
- 2 gallons per acre in June with seasonal sprays
- 2 gallons per acre August with seasonal sprays

Additional Fruit Trees:

1 gallon per acre with 8-10 gallons of water starting at budswell and continue as needed.

SOIL APPLIED GENERAL GUIDELINES:

Use 1-2 gallons per acre alone or mixed with other NPK (i.e. NACHURS Triple Option®) in-furrow on crops such as but not limited to corn, cotton, peanuts, potato, soybean, sugar beet to supply boron, cobalt, and molybdenum.

ROLE OF MICRONUTRIENTS:

- **Boron (B)** Boron is vital to the growth and development of the plant. Without adequate boron, new growth ceases. It is necessary in the pollination and seed production stages. Boron is essential for maintaining a balance between sugars and starches. A small amount of boron is beneficial to plants but too much can be toxic to plants.
- **Cobalt (Co)** Cobalt plays a role in nitrogen fixation and in vitamin B12 synthesis.
- **Molybdenum (Mo)** Molybdenum helps to transform basic nitrogen into amino acids, which are building blocks for proteins. It also helps legumes to symbiotically fix atmospheric nitrogen. Molybdenum is a catalyst in many oxidation-reduction process within plants.

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

US Patent # 10,508,060

PATENTED

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N).....	0.204
Soluble Potash (K ₂ O).....	0.204
Boron (B).....	0.010
Copper (Cu).....	0.015
Iron (Fe).....	0.031
Manganese (Mn).....	0.153
Molybdenum (Mo).....	0.00005
Zinc (Zn).....	0.409

Derived From: Ammonium Hydroxide, Potassium Hydroxide, Boric Acid, Copper EDTA, Iron EDTA, Manganese EDTA, Sodium Molybdate, Zinc EDTA

PRODUCT PROPERTIES:

Analysis:	2-0-2-1B-15Cu-.3Fe-1.5Mn-.0005Mo-4Zn
Weight:	10.22 lbs. per gallon
Specific gravity:	1.225 kg/L
pH:	6.8-7.5
Appearance:	Clear, brown liquid
Odor:	Slight amine

GENERAL PRODUCT INFORMATION:

NACHURS CropMax liquid fertilizer is manufactured with 100% fully EDTA chelated copper, manganese, iron, and zinc. Unlike other micronutrient sources such as complexes, partial chelates, and natural organic complexes, NACHURS EDTA chelated micronutrients are 100% available to the crop. Other micro sources contain too little complexing agent and undergo major chemical changes, delivering significantly less micronutrient in a form available for plant uptake. While these sources of micros may offer cost savings at first, they can actually create deficiencies for lack of availability.

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.

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NACHURS CropMax®

Premium Liquid Micronutrients

**APPLICATION RATES:**

- In-furrow - 1–2 pints per acre.

NACHURS CropMax is formulated to provide necessary micronutrients for optimum growth with the advantage of excellent compatibility with NACHURS in-furrow starters.

- **Foliar** - apply 1–2 pints per acre with sufficient spray volume to ensure good coverage.
- **Fertigation** - apply 1–2 pints per acre. Extremely hard water and/or high total dissolved solids may effect performance.

Compatibility: **NACHURS CropMax** may be applied in combination with other liquid fertilizers, fertilizer suspensions, and nitrogen solutions. Always jar test combinations before field mixing.

These are general product recommendations. Please consult with your NACHURS Sales Manager or agronomist for specific fertility recommendations.

GENERAL MIXING INSTRUCTIONS

1. Put 1/3 of fertilizer in tank
2. Add other chemicals, if any
3. Fill tank with balance of fertilizer
4. Add correct amount of chelated micronutrient
5. Agitate adequately to mix

CAUTION: Check compatibility with standard jar test.

WARNING: BORON IS TO BE USED WHERE SOIL TEST AND/OR TISSUE ANALYSIS INDICATE A DEFICIENCY, AND SHOULD NOT BE USED AT RATES IN EXCESS OF THE RATE RECOMMENDED BY A QUALIFIED INDIVIDUAL/ENTITY SUCH AS A CERTIFIED CROP ADVISOR, AGRONOMIST OR UNIVERSITY. EXCESSIVE APPLICATION OF BORON MAY CAUSE CROP DAMAGE. THIS FERTILIZER IS TO BE USED ONLY ON SOIL WHICH RESPONDS TO MOLYBDENUM. CROPS HIGH IN MOLYBDENUM ARE TOXIC TO GRAZING ANIMALS (RUMINANTS).

THE ROLE OF MICRONUTRIENTS:**Boron (B)**

Boron is vital to the growth and development of the plant. Without adequate boron, new growth ceases. It is necessary in the pollination and seed production stages. Boron is essential for maintaining a balance between sugars and starches. A small amount of boron is beneficial to plants but too much can be toxic to plants.

Copper (Cu)

Copper is important as a co-enzyme. It is needed to activate several plant enzymes, including building and converting amino acids to proteins. Since copper is an immobile nutrient, deficiency symptoms usually occur on new growth. Copper deficient plants will become chlorotic and take on a bleached appearance. New growth may die.

Iron (Fe)

Iron is required for the formation of chlorophyll in plant cells. It serves as an activator for biochemical processes such as respiration, photo-synthesis and symbiotic nitrogen fixation.

Manganese (Mn)

Manganese is essential to plants but too much is toxic. Manganese functions in chlorophyll development and serves as a catalyst in several enzyme systems in the oxidation-reduction process. Manganese deficiencies are very similar to iron deficiencies and appears in the younger leaves of the plant first. Color may be pale between the veins of broadleaf plants.

Molybdenum (Mo)

Molybdenum helps to transform basic nitrogen into amino acids, which are building blocks for proteins. It also helps legumes to symbiotically fix atmospheric nitrogen. Molybdenum is a catalyst in many oxidation-reduction process within plants.

Zinc (Zn)

Zinc is necessary for starch formation and proper root development. It is also essential for seed formation and maturity. The most common symptom of zinc deficiency is interveinal chlorosis on older leaves with shortening of the internodal area. This shortening often results in a short compressed plant with a rosetted appearance.

FOR OVER 75 YEARS, NACHURS® HAS BEEN
THE INDUSTRY LEADER IN NPK LIQUID
FERTILIZER TECHNOLOGY



**NUTRIENTS SUPPLIED (pounds per gallon):**

Soluble Potash (K2O)	2.07
Sulfur (S)	1.38
12% Combined Sulfur (S)	
Boron (B)	0.0023
Copper (Cu)	0.0057
Manganese (Mn)	0.023
Molybdenum (Mo)	0.023
Zinc (Zn)	0.069

Derived from: Potassium Thiosulfate, Boric Acid, Copper EDTA, Manganese EDTA, Zinc EDTA, Sodium Molybdate

Contains non-plant food ingredients:

0.5% organic acids derived from humic acid.

PRODUCT PROPERTIES:

Analysis:	0-0-18-12 S-0.02 B-0.05 Cu-0.2 Mn-0.2 Mo-0.6 Zn
Weight:	11.5 lbs. per gallon
Specific gravity:	1.23
pH:	7.1
Appearance:	Dark Red/Brown

GENERAL PRODUCT INFORMATION:

NACHURS Detour is a new and improved, single-pass foliar nutritional product on soybeans designed to both redirect normal plant growth patterns as well as provide essential nutrients required to restart functional plant growth. It is manufactured with the highest quality raw materials comprised of primary (potassium), secondary (calcium, magnesium, sulfur), and micronutrients (boron, copper, manganese, molybdenum, zinc) which are all required for optimum crop yield. **NACHURS Detour** contains 100% fully chelated micronutrients (copper, manganese, zinc) as well as organic acids which aids in buffering capacity and nutrient uptake.

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

CAUTION: Over application or excessive use of boron, or use on crops other than those listed as having a boron response, can result in boron toxicity and may cause serious crop injury.

KEEP OUT OF REACH OF CHILDREN.

CAUTION: THIS FERTILIZER IS TO BE USED ONLY ON SOIL WHICH RESPONDS TO MOLYBDENUM. CROPS HIGH IN MOLYBDENUM ARE TOXIC TO GRAZING ANIMALS (RUMINANTS).

CAUTION: BORON IS TO BE USED WHERE SOIL TEST AND/OR TISSUE ANALYSIS INDICATE A DEFICIENCY, AND SHOULD NOT BE USED AT RATES IN EXCESS OF THE RATE RECOMMENDED BY A QUALIFIED INDIVIDUAL/ENTITY SUCH AS A CERTIFIED CROP ADVISOR, AGRONOMIST OR UNIVERSITY. EXCESSIVE APPLICATION OF BORON MAY CAUSE CROP DAMAGE.

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Visit us online: nachurs.com



NACHURS Detour™

Premium Foliar Fertilizer

APPLICATION INSTRUCTIONS:

NACHURS Detour fertilizer is supplied in a ready to use liquid form, making its application by spray equipment (ground rig or UAV) convenient and easy. Apply with adequate water to ensure thorough spray coverage. It provides a two-fold effect to soybeans by redirecting normal growth patterns through the shortening of internodes and initiation of lateral branching, as well as providing required micronutrients to restart enzyme systems associated with regular growth processes. **DO NOT USE WITH OTHER FERTILITY OR PESTICIDE PRODUCTS.**

GENERAL FOLIAR APPLICATION RATES:**Soybeans:**

- 48 oz per acre starting at V3-V4 (*depending on herbicide program*).
- If further shortening of plant height and/or lateral branching is required, apply again prior to V5-V6.

DO NOT APPLY ONCE FLOWERING BEGINS**MIXING INSTRUCTIONS:**

NACHURS liquid fertilizers can mix with many crop protection products. Some non-100% EDTA chelates may not be compatible.

1. Put 1/2 of water in tank
2. Add NACHURS Detour
3. Fill tank with balance of water
4. Agitate adequately to mix

THE ROLE OF MICRONUTRIENTS:

NACHURS Detour offers nutrients which are essential for normal growth and development.

- **Potassium** – Chlorophyll maintenance, enzyme activation, nutrient transport
- **Calcium** – Cell structure, nutrient uptake and balance
- **Magnesium** – Chlorophyll structure, photosynthetic capacity
- **Sulfur** – Amino acid and protein formation
- **Boron** – Cell division and elongation, cell wall integrity
- **Iron** – Oxygen transport, chlorophyll synthesis, plant respiration
- **Copper** – Enzyme activation, protein production, photosynthesis
- **Manganese** – Chloroplast production, electron transport, enzyme activation
- **Molybdenum** – Nitrogen metabolism
- **Zinc** – Cell membrane structure, hormonal balance

NACHURS Detour, as with foliar fertilization in general, is not intended as a replacement for a sound fertility program, but rather as a management tool to help maximize yield, quality, and productivity.

These are general product recommendations.

Please consult with your NACHURS Sales Manager or agronomist for specific fertility recommendations.



**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)	0.840
Available Phosphorus (P₂O₅)	0.420
Soluble Potash (K₂O)	0.630
Boron (B)	0.0105
Copper (Cu)	0.021
Manganese (Mn)	0.105
Zinc (Zn)	0.105

Derived from: Urea, Phosphoric Acid, Potassium Hydroxide, Potassium Acetate, Sodium Borate, Copper EDTA, Manganese EDTA, and Zinc EDTA.

EDTA chelated micronutrient for prevention and correction of nutrient deficiency.

Contains non-plant food ingredients:

0.5% organic acids derived from fulvic acid.

PRODUCT PROPERTIES:

Analysis:	8-4-6-.1B-.2Cu-1Mn-1Zn
Weight:	10.5 lbs. per gallon
Specific gravity:	1.26 kg/L
pH:	7.8–8.8
Appearance:	Clear, blue-colored liquid
Odor:	Nearly odorless

GENERAL PRODUCT INFORMATION:

NACHURS Finish Line is a new and improved foliar nutritional product, comprised of essential plant nutrients, two forms of phosphate molecules, fully chelated micronutrients, surfactants, compatibility agents, and organic acids as well as the latest in potassium uptake technology, Bio-K®. **NACHURS Finish Line** is manufactured with the highest quality raw materials on the market today, which once absorbed by the plant helps to promote a healthier plant and root system, and ultimately helps to improve crop productivity. **NACHURS Finish Line** is well adapted to all cropping and management systems, including but not limited to row crops, vegetables, fruit, tree, and turf/ornamentals.

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

CAUTION: Over application or excessive use of boron, or use on crops other than those listed as having a boron response, can result in boron toxicity and may cause serious crop injury.

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.

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Visit us online: www.nachurs.com



NACHURS Finish Line®

Premium Foliar Fertilizer

**APPLICATION INSTRUCTIONS:**

NACHURS Finish Line fertilizer is supplied in a ready to use liquid form, making its application by spray equipment convenient and easy. Apply with adequate water to ensure thorough spray coverage. It is uniquely adapted to all crops and cropping systems to promote rapid growth and development, especially those crops that have encountered environmental stresses due to hail, insects, etc. **NACHURS Finish Line** fertilizer can be applied with glyphosate and other pesticides for optimum performance. If local information is not available, a jar test for compatibility should be conducted prior to large scale mixing.

GENERAL FOLIAR APPLICATION RATES:

1 to 4 quarts per acre

Forage and Hay Crops – 1–4 quarts after sufficient leaf regrowth, usually between 7 and 10 days after cutting. There are no grazing restrictions.

Cereals and Small Grains – 1–2 quarts per acre at tillering through flag leaf.

Corn, Soybeans, Cotton, Peanuts, Canola, Sugar Beets, Grain Sorghum – 1–2 quarts per acre with in-season herbicide/insecticide applications.

Potatoes – 1–2 quarts per acre at tuber initiation.

Berries and Grapes – 1–2 quarts per acre at leaf emergence and again pre-bloom.

Fruit/Nut Trees – 2–4 quarts per acre at bloom to improve bud set and retention.

Cucurbits – 1–2 quarts per acre when runners are 4–6 inches long.

Other Vegetables (beans, peppers, tomatoes, etc.) – 1–2 quarts pre-bloom.

MIXING INSTRUCTIONS:

NACHURS liquid fertilizers can mix with many crop protection products. Some non-100% EDTA chelates may not be compatible.

1. Add 1/3 water to spray tank
2. Start sprayer agitation and maintain
3. Add pesticides as per label instructions
4. Add 1/3 water
5. Add **NACHURS Finish Line**
6. Add remaining water volume and agitate before spraying

THE ROLE OF MICRONUTRIENTS:

NACHURS Finish Line offers 4 essential micronutrients. All are chelated except Boron:

Boron: Critical for new growth of plant and in pollination and reproductive stages. Essential for maintaining sugar and starch balances.

Copper: Essential in protein formation and for enzyme activation.

Manganese: Vital in chlorophyll development and enzyme systems in the oxidation process.

Zinc: Promotes root development, vigorous shoot growth, stress tolerance, and a more even maturity.

NACHURS Finish Line, as with foliar fertilization in general, is not intended as a replacement for a sound fertility program, but rather as a management tool to help maximize yield and quality.

NACHURS Finish Line is a clean, easy handling product that fits into most crop protection programs. Each drop of foliar has the exact same nutrient ratio, which means it will not settle out of solution.

APPROVED FOR USE WITH

Enlist One® • Enlist Duo®

HERBICIDE TECHNOLOGIES

- Provide additional plant nutrition without extra application cost
- Improves plant health and nutrient use efficiency
- Excellent tank mix compatibility, but always jar test for verification

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

US Patent # 10,508,060

**NUTRIENTS SUPPLIED (pounds per gallon):**

Calcium (Ca)0.58

Derived from: Calcium Acetate**PRODUCT PROPERTIES:****Analysis:**0-0-0-6Ca**Weight:**9.6 lbs. per gallon**Specific gravity:**1.14 –1.17 kg/L**pH:**5.0 –6.0**Appearance:**Clear to slight tan**Odor:**Mild odor**GENERAL PRODUCT INFORMATION:**

NACHURS® Microzone Ca is a new and improved calcium fertilizer product intended to correct or prevent calcium deficiencies with a wide range of uses (in-furrow, foliar, sidedress, fertigated) across all cropping environments. It combines plant available calcium with the additional benefits of acetate-carbon to aid in crop growth and development, cell strength and integrity, defense response, enzyme activation, and stress mitigation.

NACHURS Microzone Ca is not caustic or corrosive and is free of chlorides and sulfates resulting in safer soil, foliar, and/or fertigation applications where calcium is required. It can be applied alone, with most pesticides, with other chelated micronutrients, or with nitrogen solutions. If unfamiliar with its use, perform a jar test by mixing in the same ratio as to be field applied.

CAUTION: Avoid mixing with straight potassium acetate, high boron products, or phosphate-containing fertilizers.

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

WARNING: DO NOT STORE BELOW 32 DEGREES.

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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NACHURS Microzone® Ca

Premium Liquid Micronutrient

PRODUCT RECOMMENDATIONS:

CALCIUM: A high testing soil and/or base saturation calcium level does not necessarily mean it is available to fulfill the plants need. The addition of calcium to your fertility program provides the following:

- Plant defense response
- Cell wall strength and structure
- Enzyme activation
- Nitrate uptake and metabolism
- Greater fruit quality (blossom end rot, bitter pit, etc.)
- Translocation of nutrients, metabolites, and sugars
- Elevated protein and starch levels within the plant

ACETATE: Acetate-carbon is the basic carbon building block found in nature. When plant or soil applied it offers many functions such as:

- Increased photosynthetic capacity
- Improved cell integrity
- Elevated production of oxidative compounds
- Greater nitrogen utilization
- Enhanced stress mitigation

SOIL APPLIED:

At-planting: Apply 1-2 quarts in-furrow or planter banded for early season calcium demand.

In-season: Apply 1-4 quarts at sidedress, layby, hilling, etc. for mid-season calcium demand.

TRANSPLANT AND SEED BED:

Apply 1-4 quarts per 100 gallons water during transplanting or seed bed preparation.

FERTIGATION:

Apply 1-4 quarts via drip, sprinkler, pivot, or furrow irrigation as required.

MIXING INSTRUCTIONS:

1. Put 1/3 of water or fertilizer in tank
2. Add other chemicals (if applicable)
3. Fill tank with balance of water or fertilizer
4. Add correct amount of product
(shake each container vigorously before use)
5. Agitate adequately to mix

CAUTION: Avoid mixing with straight potassium acetate, high boron products, or phosphate-containing fertilizers.

APPLICATION INSTRUCTIONS:

Suggested crops and rates but not limited to the below. Always use soil and/or tissue tests and crop observations to determine final rates.

Almond, macadamia, pistachio, walnut, and other deciduous trees	1-4 quarts foliar at bud break. Repeat every 2-3 weeks as required.
Apple, cherry, peach, other stone and pome fruit	1-4 quarts foliar at bud break. Repeat every 2-3 weeks as required.
Barley, oats, wheat, rice, and small grains	1-4 quarts foliar at tillering through early boot.
Beans, peas, and other legumes	1-3 quarts foliar at early bud. Repeat after bloom as required.
Blueberry, blackberry, raspberry, strawberry	1-4 quarts pre-bloom. Repeat every 2-4 weeks as required.
Cabbage, broccoli, carrot, onion, tomato, other vegetable	1-4 quarts foliar when 4-8" tall. Repeat every 2-3 weeks as required.
Corn (field, sweet)	1-2 quarts foliar from V6-V10. Repeat until R3 as required.

Cotton	1-3 quarts foliar from early square to mid-bloom.
Cucurbit (cucumber, melon, squash, etc.)	1-3 quarts foliar when 4-8" tall. Repeat every 2-3 weeks as required.
Grape	1-4 quarts foliar at dormant, pre-flowering, and post-flowering as required.
Grass grown for seed	1-4 quarts foliar at tillering through early boot.
Lettuce, celery, spinach, and other leafy vegetables	1-4 quarts foliar after transplanting or thinning. Repeat as required.
Potato	1-4 quarts foliar at tuber initiation. Repeat every 2 weeks as required.

Visit us online: www.nachurs.com



Nutrients Supplied (pounds per gallon):

Magnesium (Mg)0.53

Derived from: Magnesium Acetate

Product Properties:

Analysis:0-0-0-5 Mg
Weight:10.18 lbs. per gallon
pH:4.9–5.5
Appearance:Yellow Color
Odor:Slightly acidic odor

GENERAL PRODUCT INFORMATION:

NACHURS Microzone Mg is a secondary nutrient intended for use in a complete crop nutritional program. **NACHURS Microzone Mg** may be applied with other nutritionals, nitrogen solutions, pesticides, or water.

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.

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NACHURS Microzone Mg

Premium Liquid Magnesium



GENERAL USE INFORMATION:

NACHURS Microzone Mg is intended for use on many agricultural, horticultural, and/or ornamental crops that require magnesium nutrition. **NACHURS Microzone Mg** is generally compatible with most pesticides and fertilizer solutions. It is intended for use as a plant nutrient supplement and/or for the correction of short-term magnesium deficiencies. This is not intended to correct or alter base saturation of cations in the soil profile. **NACHURS Microzone Mg** is to be applied directly to the soil as a spray, through drip or injection systems, and/or foliar application through conventional, low-volume, or aerial sprayers.

Test for compatibility by means of a jar test prior to large scale tank mixing. When mixing with pesticides, agitate thoroughly and apply immediately. **Pay special and careful attention to fertilizer solutions which contain phosphorus due to potential incompatibility (especially with orthophosphate).**

APPLICATION INSTRUCTIONS:

For best results on field or row crops, dilute with 3 to 20 gallons of carrier by air; 10 to 40 gallons of carrier by ground rig. On tree crops, dilute with 100 gallons of carrier at a minimum. Foliar applications should be made in early morning or late evening. Some foliar burning can result if applied during hot, dry, daytime conditions. Application timing is important in determining crop nutrient response. Understanding the basic physiological functions and nutrient uptake demand of a crop is essential in planning proper nutrient timing. Consult your state Agricultural Experiment Station or Extension Agent for additional information on rates, timing of application and sensitivity of hybrids or varieties to phytotoxicity.

SOIL APPLICATION RATES:

1 to 8 qt/ac at planting or in-season. Limit to a total combined (Mg + micro) maximum of 2 qt/ac in-furrow when applied with other micronutrients.

FOLIAR APPLICATION RATES:

Corn (field, sweet): Apply 1-4 pt/ac during periods of rapid growth or nutritional demand once plants have reached 8" high; repeat every two weeks as needed.

Soybean, legumes: Apply 1-4 pt/ac at early bloom; repeat every two weeks as needed.

Small grains: Apply 1-4 pt/ac beginning at early boot or flag leaf emergence.

Cotton: Apply 1-4 pt/ac beginning at early bloom through boll fill as needed.

Alfalfa, hay, and forage crops: 1-4 pt/ac after early spring growth, then again after cutting as needed once new growth begins.

Potato: Apply 1-4 pt/ac beginning at early bulking, then 7-10 day intervals as required.

Cabbage, broccoli, other vegetable: 1-4 pt/ac when growth is 4-8" high; repeat in 2 week intervals as needed.

Leafy vegetable: Apply 1-4 pt/ac after thinning and throughout vegetative development.

Stone, pome fruits, citrus, nuts, deciduous trees: 1-4 pt/ac at 1-2 week intervals beginning after bloom.

Grapes: Apply 1-4 pt/ac pre and post bloom as needed.

Berries: 1-4 pt/ac after active vegetative growth begins; repeat at 7-14 day intervals.

GENERAL MIXING INSTRUCTIONS:

1. Put 1/3 of carrier fertilizer or water in tank
2. Add correct amount of **NACHURS Microzone Mg**
3. Fill with pesticide or balance of carrier fertilizer or water
4. Agitate adequately to mix

Always do jar test for confirmation of compatibility.

THE ROLE OF MAGNESIUM:

- Improves produce appearance and quality.
- Functions as a bridge in nutrient movement in xylem and phloem.
- Essential for metabolic function of soil microbes.
- Enhances iron utilization.
- Impacts balance between O₂, CO₂, and H₂O in plants.
- Acts as a cofactor in many enzyme systems, especially those regulating RNA and DNA synthesis.

MAGNESIUM IN THE LEAF:

Sufficiency tissue test ranges in ppm

Canola: 0.40–0.50

Small grains: 0.20–0.40

Potato (50 DAE): 0.30–0.50

Cotton (mature leaf, early bloom): 0.25–0.50

Corn (ear leaf at silking): 0.20–0.45

Soybeans: 0.25–0.60

**NUTRIENTS SUPPLIED (pounds per gallon):**

Boron (B)	0.65
Copper (Cu)	0.015
Manganese (Mn)	0.010
Molybdenum (Mo)	0.05
Cobalt (Co)	0.005

Derived From:

Boric Acid, Copper EDTA, Cobalt Sulfate, Manganese EDTA, and Sodium Molybdate.

Contains non-plant food ingredients:

0.2% organic acids derived from fulvic acid.
3.5% macroalgae extract.

PRODUCT PROPERTIES:

Analysis:	6.5 B - 0.05 Co - 0.15 Cu - 0.1 Mn - 0.5 Mo
Weight:	10.40 lbs. per gallon
Specific gravity:	1.248 kg/L
pH:	7.5-8.5
Appearance:	Green/Brown Liquid
Odor:	Slight amine

GENERAL PRODUCT INFORMATION:

NACHURS MoneyBall liquid fertilizer is manufactured with 100% fully EDTA chelated copper, and manganese. Unlike other micronutrient sources such as complexes, partial chelates, and natural organic complexes, NACHURS EDTA chelated micronutrients are 100% available to the crop. Other micro sources contain too little complexing agent and undergo major chemical changes, delivering significantly less micronutrient in a form available for plant uptake. While these sources of micros may offer cost savings at first, they can actually create deficiencies for lack of availability.

NACHURS MoneyBall is powered by our new NACHURS ENDURO-SHIELD technology, which is a purified, high quality, marine macroalgae extract product obtained from *Ascophyllum nodosum* and contains growth promotant and bioactive compounds which aid in stress mitigation and nutrient utilization.

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

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NACHURS MoneyBall®

Premium Liquid Micronutrients

**APPLICATION RATES:**

NACHURS MoneyBall is formulated to provide necessary micronutrients for optimum growth with the advantage of excellent compatibility with NACHURS in-furrow starters.

- **Foliar** - apply 1-2 pints per acre with sufficient volume to ensure good coverage at specific timings per the below:
 - Corn-prior to VT or after R2
 - Soybean-after R1
 - Wheat-before heading
 - Potato-during bulking
 - Cotton-after late-bloom
- **Fertigation** - apply 1-2 pints per acre. Extremely hard water and/or high total dissolved solids may effect performance.

Compatibility: **NACHURS MoneyBall** may be applied in combination with other liquid fertilizers, fertilizer suspensions, and nitrogen solutions. Always jar test combinations before field mixing.

These are general product recommendations. Please consult with your NACHURS Sales Manager or agronomist for specific fertility recommendations.

GENERAL MIXING INSTRUCTIONS

1. Put 1/3 of fertilizer in tank
2. Add other chemicals, if any
3. Fill tank with balance of fertilizer
4. Add correct amount of chelated micronutrient
5. Agitate adequately to mix

CAUTION: Check compatibility with standard jar test.

WARNING: BORON IS TO BE USED WHERE SOIL TEST AND/OR TISSUE ANALYSIS INDICATE A DEFICIENCY, AND SHOULD NOT BE USED AT RATES IN EXCESS OF THE RATE RECOMMENDED BY A QUALIFIED INDIVIDUAL/ENTITY SUCH AS A CERTIFIED CROP ADVISOR, AGRONOMIST OR UNIVERSITY. EXCESSIVE APPLICATION OF BORON MAY CAUSE CROP DAMAGE. THIS FERTILIZER IS TO BE USED ONLY ON SOIL WHICH RESPONDS TO MOLYBDENUM. CROPS HIGH IN MOLYBDENUM ARE TOXIC TO GRAZING ANIMALS (RUMINANTS).

THE ROLE OF MICRONUTRIENTS:**Boron (B)**

Boron is vital to the growth and development of the plant. Without adequate boron, new growth ceases. It is necessary in the pollination and seed production stages. Boron is essential for maintaining a balance between sugars and starches. A small amount of boron is beneficial to plants but too much can be toxic to plants.

Copper (Cu)

Copper is important as a co-enzyme. It is needed to activate several plant enzymes, including building and converting amino acids to proteins. Since copper is an immobile nutrient, deficiency symptoms usually occur on new growth. Copper deficient plants will become chlorotic and take on a bleached appearance. New growth may die.

Manganese (Mn)

Manganese is essential to plants but too much is toxic. Manganese functions in chlorophyll development and serves as a catalyst in several enzyme systems in the oxidation-reduction process. Manganese deficiencies are very similar to iron deficiencies and appears in the younger leaves of the plant first. Color may be pale between the veins of broadleaf plants.

Molybdenum (Mo)

Molybdenum helps to transform basic nitrogen into amino acids, which are building blocks for proteins. It also helps legumes to symbiotically fix atmospheric nitrogen. Molybdenum is a catalyst in many oxidation-reduction process within plants.

Cobalt (Co)

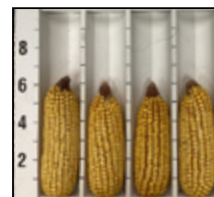
Cobalt is needed in the formation of cobalamin which is a part of hemoglobin that is required for nitrogen fixation in legumes. Cobalt is also involved in ethylene regulation in response to plant stress.

Powered by NACHURS

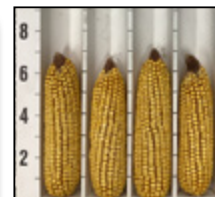


ABG Ag Services Field Trials

Sheridan, Indiana



GSP - 265.2



GSP + Enduro-Shield - 269.0

FOR OVER 75 YEARS, NACHURS® HAS BEEN
THE INDUSTRY LEADER IN NPK LIQUID
FERTILIZER TECHNOLOGY



NACHURS®

NUTRIENTS SUPPLIED (pounds per gallon):

Nitrogen (N).....	0.211
Potassium (K ₂ O)	0.105
Boron (B)	0.221
Copper (Cu)	0.053
Iron (Fe).....	0.026
Manganese (Mn)	0.106
Zinc (Zn).....	0.317

Derived from: Iron EDTA, Copper EDTA, Manganese EDTA, Zinc EDTA, Boric Acid, Ammonium Hydroxide, and Potassium Hydroxide

PRODUCT PROPERTIES:

Analysis:	2-0-1-2B-.5Cu -.25Fe-1Mn-.3Zn
Weight:	10.57 lbs. per gallon
Specific gravity:	1.269 lb/gal
pH:	9.3-10.1
Appearance:	Brown/green liquid
Odor:	Slight amine

GENERAL PRODUCT INFORMATION:

NACHURS Sideswipe liquid fertilizer is manufactured with 100% fully EDTA chelated copper, iron, manganese, and zinc as well as boron for maximum micronutrient delivery. Unlike other micronutrient sources such as complexes, partial chelates, and natural organic complexes, NACHURS micronutrients are 100% available to the crop and resist tie-up when soil applied or when combined with other fertilizers.

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NACHURS Sideswipe®

Premium Liquid Micronutrients



APPLICATION RATES:

NACHURS Sideswipe is formulated to provide necessary micronutrients for optimum crop growth and development while providing excellent compatibility with other fertilizer solutions.

- Soil applied (2x2, Conceal): 1–2 pints
- Sidedress (i.e. knife): 1–4 quarts
- Sidedress (i.e. Y-drop): 1–4 quarts
- Foliar: 1–2 pints
- Fertiligation: 1–4 quarts

• **NOT FOR IN-FURROW USE**

Compatibility: **NACHURS Sideswipe** may be applied in combination with other liquid fertilizers, fertilizer suspensions, and nitrogen solutions. Always jar test combinations before field mixing.

These are general product recommendations. Please consult with your NACHURS Sales Manager or agronomist for specific fertility recommendations.

GENERAL MIXING INSTRUCTIONS

1. Put 1/3 of fertilizer in tank
2. Add other chemicals, if any
3. Fill tank with balance of fertilizer
4. Add correct amount of chelated micronutrients
5. Agitate adequately to mix

CAUTION: Check compatibility with standard jar test.

WARNING: Boron is to be used where soil test and/or tissue analysis indicate a deficiency, and should not be used at rates in excess of the rate recommended by a qualified individual/entity such as a certified crop advisor, agronomist or university. Excessive application of boron may cause crop damage.

THE ROLE OF MICRONUTRIENTS:

Boron (B)

Boron is vital to the growth and development of the plant. Without adequate boron, new growth ceases. It is necessary in the pollination and seed production stages. Boron is essential for maintaining a balance between sugars and starches. A small amount of boron is beneficial to plants but too much can be toxic to plants.

Copper (Cu)

Copper is important as a co-enzyme. It is needed to activate several plant enzymes, including building and converting amino acids to proteins. Since copper is an immobile nutrient, deficiency symptoms usually occur on new growth. Copper deficient plants will become chlorotic and take on a bleached appearance. New growth may die.

Iron (Fe)

Iron is required for the formation of chlorophyll in plant cells. It serves as an activator for biochemical processes such as respiration, photo-synthesis and symbiotic nitrogen fixation.

Manganese (Mn)

Manganese is essential to plants but too much is toxic. Manganese functions in chlorophyll development and serves as a catalyst in several enzyme systems in the oxidation-reduction process. Manganese deficiencies are very similar to iron deficiencies and appears in the younger leaves of the plant first. Color may be pale between the veins of broadleaf plants.

Zinc (Zn)

Zinc is necessary for starch formation and proper root development. It is also essential for seed formation and maturity. The most common symptom of zinc deficiency is interveinal chlorosis on older leaves with shortening of the internodal area. This shortening often results in a short compressed plant with a rosetted appearance.

FOR OVER 75 YEARS, NACHURS® HAS BEEN
THE INDUSTRY LEADER IN NPK LIQUID
FERTILIZER TECHNOLOGY



V23.1PRS

**GUARANTEED ANALYSIS:****CONTAINS NON-PLANT FOOD INGREDIENTS****SOIL AMENDING ACTIVE INGREDIENTS**

Fulvic Acid 3%

INACTIVE INGREDIENTS

Carboxylic acid and water 97%

NACHURS Humi-flex FA is a pure fulvic concentrate of unique organic acids. **NACHURS Humi-flex FA** is isolated from pure leonardite ore rich in organic matter. Through a double extraction process, **NACHURS Humi-flex FA** is concentrated into a clear, bioactive fulvic acid liquid to increase nutrient use efficiency.

Weight: 8.4 lbs. per gallon

pH: 2.5–3.0

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

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NACHURS Humi-flex® FA

Soil And Fertility Catalyst

GENERAL PRODUCT INFORMATION:

Product benefits include:

- High fulvic acid content
- Increased nutrient utilization
- Energizes soil bioactivity
- Approved for organic production
- Low use rates (0.5–2 pints)
- Flexible application options
- Easy handling and mixing properties
- Translucent, clean material

DIRECTIONS FOR USE:

Soil applied (in-furrow, 2x2, etc.) - Apply 1–2 pints per acre with fertilizer or with water to aide in phosphorus and micronutrient efficiency. Repeated applications may be beneficial. This product may require agitation when mixed with fertilizer for prolonged periods.

Foliar applied – Apply 0.5–1 pint per acre with sufficient water for thorough coverage by ground or air application. Repeated applications may be beneficial.

Fertigation – Apply 1–2 pints per acre via drip irrigation at critical periods of growth and development to aide in nutrient uptake and efficiency. Repeated applications may be beneficial.

BLENDING & COMPATIBILITY GUIDELINES:

NACHURS Humi-flex FA is formulated for superior compatibility with liquid fertilizer solutions. When possible, add **NACHURS Humi-flex FA** to tank first, then add fertilizer solution, and mix thoroughly. Always jar test new combinations to reduce risk of incompatibility.

2019 Winter Wheat Foliar Trials

Ohio

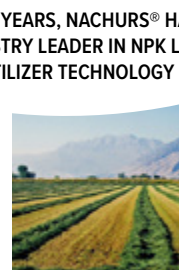
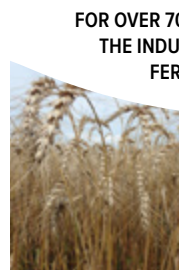
49.3 bu/ac 1 pt/ac NACHURS Humi-flex FA

47.3 bu/ac CONTROL

Wisconsin

94.0 bu/ac 1 pt/ac NACHURS Humi-flex FA

87.2 bu/ac CONTROL



FOR OVER 70 YEARS, NACHURS® HAS BEEN
THE INDUSTRY LEADER IN NPK LIQUID
FERTILIZER TECHNOLOGY

**Guaranteed Analysis:**Soluble Potash (K_2O)1%

Derived from: Potassium Hydroxide

ALSO CONTAINS NON-PLANT FOOD INGREDIENT:

Humic Acid from Leonardite12%

GENERAL PRODUCT INFORMATION:

NACHURS Humi-flex MAX is a highly refined humic acid product containing an unprecedented 12% humic acid.

NACHURS Humi-flex MAX may be applied with starter or pop-up fertilizers, foliar fertilizers, soil-applied or fertigation-applied fertilizers or as standalone treatments. Utilizing advanced formulation technology **NACHURS Humi-flex MAX** does not settle in storage and may be applied through drip or microsprinkler systems without worry of system blockage.

Weight.....8.9 lbs. per gallon

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NACHURS Humi-flex® MAX

Soil and Fertility Catalyst

**GENERAL PRODUCT INFORMATION:****Benefits of NACHURS Humi-flex MAX:**

- Highly concentrated liquid humic acid
- Advanced extraction process
- Provides flexible application options
- Easy handling

Benefits Attributed to Humic Acid:

- Increased nutrient uptake
- Increased root mass
- Increased soil buffering capacity
- Improved soil water-holding capacity
- Increased CEC (Cation Exchange Capacity)
- Improved soil structure
- Increased soil microbial activity
- Increased shoot growth (foliar)
- Increased crop yield and/or quality
- Translucent, clean material

Directions For Use

NACHURS Humi-flex MAX can be applied in a broad range of techniques at all stages of plant growth.

Soil applied (in-furrow, 2x2, etc.) - Apply 1 quart to 5 gallons or more per acre with fertilizer or with water. Higher rates or repeated applications may be beneficial. This product requires agitation when mixed with a concentrated phosphate fertilizer such as 10-34-0.

Foliar applied – Apply 1-3 quarts per acre with sufficient water for thorough coverage. Apply this product by air or ground application. This product is a weak alkaline salt and may be neutralized with a buffer. When in doubt, test this product on a small scale.

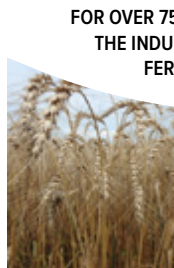
Fertigation – **NACHURS Humi-flex MAX** may be water-run in open systems or injected into closed irrigation systems at rates of 1-5 gallons or more per acre. May be applied by itself or with liquid fertilizer.

Blending & Compatibility Guidelines

NACHURS Humi-flex MAX is formulated to improve compatibility with liquid fertilizer solutions. Many fertilizers will mix spontaneously with **NACHURS Humi-flex MAX**. In some cases, dilution with one volume of water or other compatible fertilizer per volume of **NACHURS Humi-flex MAX** is necessary prior to addition of fertilizers such as 10-34-0 for best mixing. Always jar test new combinations for compatibility prior to field mixing. To reduce risk of incompatibility, follow this sequence of mixing:

1. Water
2. **NACHURS Humi-flex MAX**
3. Fertilizer

Always do jar test for confirmation of compatibility.

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FOR OVER 75 YEARS, NACHURS® HAS BEEN
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FERTILIZER TECHNOLOGY



NACHURS Rhyzo-Link PE CONTAINS NON-PLANT FOOD INGREDIENTS:

This Rhyzo-Link® product contains the following colony forming units (cfu)

100,000,000 cfu/milliliter
378,541,000,000 cfu/gallon

Total applied (at 2 pt rate) cfu/ac = 94,635,250,000

GUARANTEED ANALYSIS:

10% Microbial Ingredients

Bacillus tequilensis.....5x10⁷ cfu/mL
Bacillus velezensis.....5x10⁷ cfu/mL
cfu/mL = colony forming units/milliliter

INACTIVE INGREDIENTS

99% Water Based Culture Medium

Weight:.....9.93 lbs. per gallon (4.5kg)

GENERAL PRODUCT INFORMATION:

NACHURS Rhyzo-Link PE with PGPR (Plant Growth Promoting Rhizobacteria) Technology is a consortium of Bacillus strains specifically formulated to improve phosphorus utilization. It can be applied in-furrow, beside the row (i.e. 2x2), sidedress, foliar, or deployed through various forms of irrigation. The polymicrobial Bacillus strains have been selected for their ability to build strong relationships with crop plants, providing a healthier environment more conducive for plant growth. Plant growth is enhanced due to the more active nature of the soil microbiome. The plant microbe relationships also provide greater opportunity for growth and increased yield under stressful conditions such as drought and salinity

KEEP OUT OF REACH OF CHILDREN.

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NACHURS Rhyzo-Link® PE

Microbial Solution For Bulk Liquid Fertilizer



APPLICATION:

NACHURS Rhyzo-Link PE

- **When enhancing bulk liquid fertilizer**, maintain effective rate of 16 oz to 32 oz per acre.
- **If using a non-NACHURS Bio-K® product in-furrow** (i.e. 6-24-6, 10-34-0, 9-24-3, etc.), the minimum rate of **NACHURS Rhyzo-Link PE** is 16 oz. with the addition of 64 oz. of **NACHURS K-fuel®**.

EFFECTIVE RATE:

Starter, 2x2 or Side Dress: Apply 1 to 2 pints per acre. Mix with sufficient volume of water to achieve desired coverage.

Foliar Application: Apply 1 to 2 pints per acre.

STORAGE:

Store product in original container with cap tightly secured. Store in a dry area (40°–95° F) out of direct sunlight.

MICROBIAL INTERACTION TECHNOLOGY:

NACHURS Rhyzo-Link PE utilizes the latest advancements in microbial technology to formulate multiple microbial groups into one product. **NACHURS Rhyzo-Link PE** is composed of multiple strains and species of Bacillus (B. tequilensis, B. velezensis). The consortium consist of particular species and strains of bacteria that form colonies in a complex sugar and protein matrix along the root surface, building a coating referred to as a biofilm.



Rhyzo-Link® with PGPR Technology

Rhyzo-Link solutions are for innovative producers seeking greater nutrient utilization, elevated coping mechanisms, and a higher level of plant productivity without the degenerative effects on soil health typically promoted by conventional fertilizers. This "Bio-Charged" fertilizer with included plant growth promoting rhizobacteria (PGPR) promotes an environment more conducive to plant growth, as well as to provide improved tolerance to biotic and abiotic plant interactions which occur throughout the growing season. Rhyzo-Link solutions are a proprietary convergence of a high quality fertilizer with a pure culture, poly-microbial component while ensuring a wide range of plant benefits which directly affect many physiological cycles and processes.



NUTRIENTS SUPPLIED (pounds per gallon):

Total Nitrogen (N).....	0.23
Soluble Potash (K ₂ O).....	2.26
Sulfur (S).....	0.90
Boron (B).....	0.023
Zinc (Zn).....	0.045

Derived from: ammonium Hydroxide, Potassium Acetate, Potassium Thiosulfate, Urea-Triazone, Sodium Borate, and Zinc EDTA.

0.166 pounds of nitrogen derived from slowly available nitrogen.

PRODUCT PROPERTIES:

Analysis:.....	2-0-20-8S-0.2B-0.4Zn
Weight:.....	11.3 lbs. per gallon
Specific gravity:.....	1.355 kg/L
pH:.....	8.7-9.7
Appearance:.....	Clear, opaque
Odor:.....	Slight ammonia

NOT RECOMMENDED FOR STORAGE BELOW 40°F.

GENERAL PRODUCT INFORMATION:

Aqua-Tech 2-0-20 is a new and improved nutritional product for use in drip irrigation and/or foliar applications where potassium, sulfur, and/or micronutrients are required. It is comprised of slow release nitrogen (SRN), 100% chelated micronutrients, and an efficient, highly soluble source of potassium known as Bio-K®. **Aqua-Tech 2-0-20** is manufactured with the highest quality raw materials on the market today, allowing for continued and safe use in drip irrigation systems as a more efficient use of available plant nutrients. Once absorbed by the plant, it helps to promote a healthier plant and root system, and ultimately helps to improve crop productivity. **Aqua-Tech 2-0-20** is well adapted to all cropping and management systems (not limited to drip irrigation) which require large amounts of potassium, including but not limited to row crops, vegetables, fruit, tree, and turf/ornamentals.

Crop injury may occur from unusual weather conditions. The user assumes all risk of use and handling. Do not apply **Aqua-Tech 2-0-20** to any crop which may be sensitive to sulfur, as plant or leaf injury may occur. It is always best to apply **Aqua-Tech 2-0-20** (not including drip irrigation) early in the morning or late evening. Foliar applications made during periods of high temperature (> 90°F) or low humidity (< 30%) can result in plant and leaf tissue damage.

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NACHURS Aqua-Tech® 2-0-20

Premium Irrigation Fertilizer

APPLICATION INSTRUCTIONS:

Aqua-Tech 2-0-20 fertilizer is supplied in a ready to use liquid form, making its application by fertigation systems and spray equipment convenient and easy. It can easily be injected into drip irrigation systems via injection points directly from storage containers (totes, tanks, etc.). Applications of **Aqua-Tech 2-0-20** has the advantage of allowing producers to add necessary nitrogen, potassium, and micronutrients when:

1. Tissue analysis indicates a N, K or micronutrient shortage
2. Large fruit or grain load is expected
3. Deficiency N, K or micronutrient symptoms appear

FERTIGATION RATES*:

Rates will vary based on crop, nutrient demand, and environment, with seasonal totals ranging from 3 to 20 gallons per acre. 3 to 5 gallons per acre per application, at 1 to 4 times during the season is common, with the highest demand occurring during fruiting, flowering, and/or yield determination. Do not apply with UAN solutions as insoluble precipitates will form. Flush system with water and/or acid prior to and following application.

RATIO	
Water Hardness	Water : Aqua-Tech
Up to 475 ppm - mg/L (27GPG)	300:1
500 ppm - mg/L (29GPG) to 1000 ppm - mg/L (58GPG)	500:1
Above 1000 ppm - mg/L (58GPG)	Do NOT use Aqua-Tech

FOLLOW EQUIPMENT MANUFACTURER'S ACID FLUSH RECOMMENDATIONS.

FOLIAR RATES*:

Aqua-Tech 2-0-20 is recommended for use (but not limited to) on the following crops:

Corn (Field): Apply 2 gallons per acre on the young plant when sufficient foliage is present. Apply 1 to 2 gallons per acre at tasseling and/or again after pollination.

Alfalfa: Apply 1-2 gallons to the crown at early green-up and then again after each cutting allowing for sufficient regrowth.

Canola: Apply 3-5 gallons per acre at bud to bolting stage.

Sugar Beets: Apply 1-2 gallons prior to row canopy closing or anytime tissue tests indicate additional potassium is needed.

Dry Beans: Apply ½-1 gallons per acre at early bloom.

Potatoes: Apply 2 gallons per acre at tuber initiation and repeat at tuber bulking.

Small Grains: Apply 1-2 gallons per acre at tillering to early boot stage.

Soybeans: Apply 1-2 gallons per acre at the R2 – R4 growth stages.

Cotton: Apply 1-2 gallons per acre at first flower. Then apply 1-2 gallons per acre at a weekly or bi-weekly interval following the first application for a minimum of three applications.

Peanuts: Apply 1-2 gallons per acre anytime after pegging.

Leafy vegetables (lettuce, spinach, collards, etc.): Apply ½–2 gallons at thinning.

Tomato and peppers: Apply ½–2 gallons during flowering and/or fruiting.

Cucurbits: Apply ½ to 2 gallons at bud formation, repeat at 14 day intervals as needed.

Small fruit: Apply ½ to 1.5 gallons beginning at fruit set.



POWERED BY
aqua-TECH

*These recommendations are believed to be reliable and should be followed carefully. Failure to follow directions or improper application practices, all of which are out of control of the manufacturer or seller, can result in plant or leaf damage, or plugged irrigation equipment.

Aqua-Tech 2-0-20 liquid fertilizer may be used foliar anytime additional nutrition is needed. Use enough water to ensure good coverage. Contact your NACHURS' DSM or NACHURS Agronomist for more information concerning this product.

Aqua-Tech 2-0-20 may be mixed with other fertilizers, fungicides or pesticides. Always jar test to determine compatibility.

FOLIAR MIXING INSTRUCTIONS:

- Fill tank with 1/2 of required water
- Start agitation and continue agitation during filling and spray application
- Add other products to be tank making sure they are completely mixed
- Begin adding remaining water while adding the **Aqua-Tech 2-0-20**

THE ROLE OF MICRONUTRIENTS:

Aqua-Tech 2-0-20 offers 2 essential micronutrients required for proper plant growth and development:

Boron: Critical for new growth of plant and in pollination and reproductive stages. Essential for maintaining sugar and starch balances.

Zinc: Promotes root development, vigorous shoot growth, stress tolerance, and a more even maturity. 100% EDTA chelated.

Aqua-Tech 2-0-20 is not intended as a replacement for a sound fertility program, but rather as a management tool in fertigation and/or foliar fertilization to help maximize yield and quality.

STORAGE REQUIREMENTS:

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.

NOT RECOMMENDED FOR STORAGE BELOW 40°F.



POWERED BY
bio-K

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

US Patent # 10,508,060

**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N).....0.74
 Available Phosphate (P₂O₅).....2.12
 Soluble Potash (K₂O).....0.42

Derived from: Urea, Ammonium Hydroxide, Phosphoric Acid, Potassium Hydroxide, and Potassium Acetate.

PRODUCT PROPERTIES:

Analysis:.....7-20-4
Weight:.....0.6 lbs. per gallon
Specific gravity:.....1.27 kg/L
pH:.....5.5-6.2
Appearance:.....Clear, opaque
Odor:.....Slight ammonia

NOT RECOMMENDED FOR STORAGE BELOW 40°F.

Can only be stored in poly, fiberglass, or stainless tanks.

GENERAL PRODUCT INFORMATION:

Aqua-Tech 7-20-4 is a new and improved nutritional product with compatibility agents for use in all types of irrigation systems (surface, subsurface, pivot, sprinkler, etc.). Water is becoming more limited for production agriculture each day and the need to incorporate fertilizer into water (fertigation) will provide the most efficient use of available resources.

Aqua-Tech 7-20-4 allows for this. **Aqua-Tech** technology is a polyamine acid-based compatibility agent which protects phosphate molecules from combining with elements (i.e. calcium, magnesium, etc.) contained in hard water sources, thus preventing the formation of insoluble, scale forming precipitates. One hundred percent (100%) of the contained phosphate is present in the orthophosphate form which is immediately available for plant absorption and incorporation into metabolic processes. Additionally, one hundred percent (100%) of the contained potassium is derived from **Bio-K** technology which has organic acid origins, resulting in highly efficient and very soluble potassium source.

Aqua-Tech 7-20-4 is manufactured with the highest quality raw materials on the market today, allowing for continued and safe use in irrigation systems as a more efficient use of available plant nutrients. **Aqua-Tech 7-20-4** is well adapted to all cropping and management systems (not limited to drip irrigation) which require nitrogen, phosphorus, and potassium, including but not limited to row crops, vegetables, fruit, tree, and turf/ornamentals.

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.

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Visit us online: www.nachurs.com



NACHURS Aqua-Tech® 7-20-4

Premium Irrigation Fertilizer

PATENTED
POTASSIUM ACETATE
TECHNOLOGY

POWERED BY

aqua-TECH®

APPLICATION INSTRUCTIONS:

Aqua-Tech 7-20-4 fertilizer is supplied in a ready to use liquid form, making its application by fertigation systems and spray equipment convenient and easy. It can easily be injected into drip or pivot irrigation systems via injection points directly from storage containers (totes, tanks, etc.). Applications of **Aqua-Tech 7-20-4** has the advantage of allowing producers to add necessary nitrogen, phosphorus, and potassium through irrigation systems when:

1. Tissue analysis indicates a N, P, or K shortage
2. Large fruit or grain load is expected
3. Deficiency symptoms of N, P, or K appear

FERTIGATION RATES*:

Rates will vary based on crop, nutrient demand, and environment, with seasonal totals ranging from 1 to 20 gallons per acre. 1 to 5 gallons per acre per application at 1 to 4 times during the season is common, with the highest demand occurring early in vegetative growth and/or during grain or fruit fill. Do not apply with UAN solutions as insoluble precipitates will form. Flush system with water and/or acid prior to and following application.

	RATIO
Water Hardness	Water: Aqua-Tech
Up to 475 ppm - mg/L (27GPG)	300:1
500 ppm - mg/L (29GPG) to 1000 ppm - mg/L (58GPG)	500:1
Above 1000 ppm - mg/L (58GPG)	Do NOT use Aqua-Tech 7-20-4

FOLLOW EQUIPMENT MANUFACTURER'S ACID FLUSH RECOMMENDATIONS.**In-Furrow:**

For corn, use no more than 3 gallons per acre in soils with CEC below 10 and no more than 5 gallons per acre in soils with a CEC greater than 10. Consult a NACHURS agronomist if using **Aqua-Tech 7-20-4** in-furrow on crops other than corn or if adding micronutrients in-furrow.

FOLIAR FEEDING GENERAL GUIDELINES*:**Corn:**

1-3 gallons per acre. Foliar apply as needed.

Cotton:

1-3 gallons per acre. Foliar apply as needed.

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.

Soybeans:

1-3 gallons per acre. Foliar apply as needed.

Small Grains (including Cereals), Dry Beans, Sugar Beets and other Row Crops:

1-3 gallons per acre foliar.

TRANSPLANT SOLUTION:

Use 1-2 gallons per acre with 100 gallons of water at set out.

*These recommendations are believed to be reliable and should be followed carefully. Failure to follow directions or improper application practices, all of which are out of control of the manufacturer or seller, can result in plant or leaf damage, or plugged irrigation equipment.



POWERED BY

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

US Patent # 10,508,060

PATENTED



**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 thiosulfate) 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.

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NACHURS Full-Slate™

10-0-0

**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.

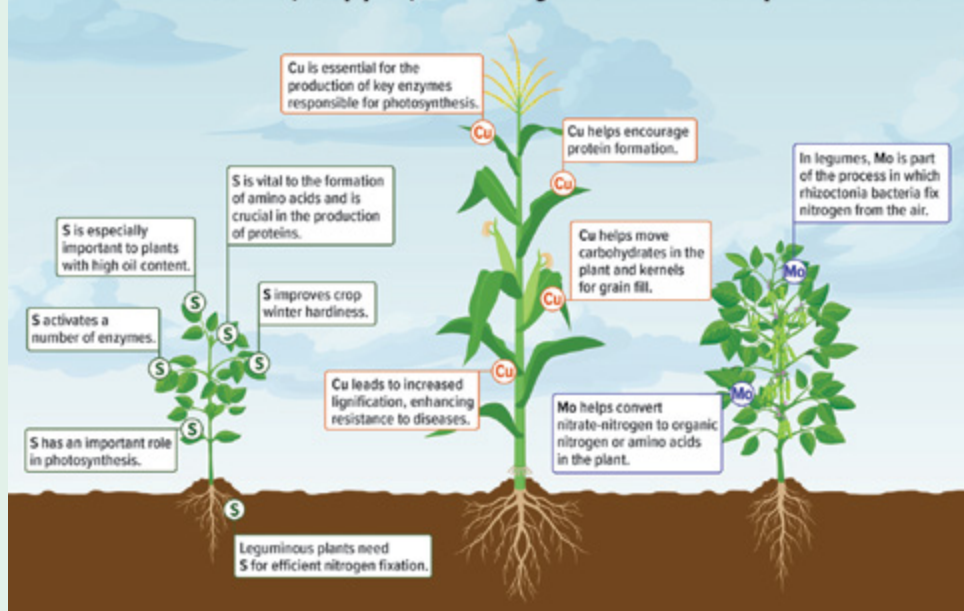
Molybdenum (Mo):

- 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



**NUTRIENTS SUPPLIED (pounds per gallon):**

Total Nitrogen (N)	1.6
Available Phosphate (P₂O₅)	1.6
Soluble Potash (K₂O)	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.

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NACHURS Sideline™

Premium Liquid Fertilizer

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 micros 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.

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.

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**

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.

- **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.

NACHURS® Traditional Products

NPK BLENDS	FOLIAR	IN FURROW	2X2
NACHURS® 3-18-18	•	•	
NACHURS® 3-18-18 with Sulfur	•	•	
NACHURS® 6-24-6	•	•	
NACHURS® 8-29-2			•
NACHURS® 9-18-9	•	•	
NACHURS® 9-18-9 with Sulfur	•	•	
NACHURS® 9-24-3			•
MICRONUTRIENTS	FOLIAR	IN FURROW	2X2
NACHURS® 10% B	•		•
NACHURS® 3% Ca EDTA	•	•	•
NACHURS® 7.5% Cu EDTA	•	•	•
NACHURS® 4.5% Fe EDTA	•	•	•
NACHURS® 2.5% Mg EDTA	•	•	•
NACHURS® 6% Mn EDTA	•	•	•
NACHURS® 10% Mo	•	•	•
NACHURS® 9% Zn EDTA	•	•	•

For more information on all NACHURS products please go to **nachurs.com** by scanning the QR code, or contact your local NACHURS Sales Manager.



nachurs.com/products

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Premium Liquid Fertilizers Since 1946

In-furrow Starters • Specialit Additives
Foliar Nutrition • Micronutrients

start
finish²



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