



# NACHURS imPulse® PREMIUM LIQUID STARTER & FOLIAR FERTILIZER



### NUTRIENTS SUPPLIED (pounds per gallon):

Total Nitrogen (N).....	1.06
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ).....	1.91
Soluble Potash (K <sub>2</sub> O).....	0.42

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

### PRODUCT PROPERTIES:

<b>Analysis:</b>	10-18-4
<b>Weight:</b>	10.6 lbs. per gallon
<b>Specific gravity:</b>	1.27 kg/L
<b>pH:</b>	6.5 – 7.0
<b>Appearance:</b>	clear, water white liquid
<b>Odor:</b>	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](http://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.

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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### IN-FURROW RECOMMENDATIONS\*:

Row Width:	CEC:	%OM:	Max Gals/A:
<b>CORN:</b>			
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
<b>SOYBEANS**:</b>			
6-8"	12↑	2.0	2-5
<b>WHEAT, BARLEY, RYE, AND OATS:</b>			
6-8"			8-10
<b>SUNFLOWERS**:</b>			
30"	18↑	3.0↑	5
30"	17.9-15.0	2.9-2.0	4
30"	14.9↓	1.9↓	3
<b>MILO**:</b>			
30"	18↑	3.0	5
30"	15↑	2.5	4
30"	10↑	2.0	3
30"	9.9↓	2.0	2.5
<b>ALFALFA (NEW SEEDING):</b>			
			5
<b>POTATOES:</b>			
			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 4<sup>th</sup>-6<sup>th</sup> trifoliolate, 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.

**POWERED BY Bio-K®:**

For the progressive grower who is looking for a premium source of potash, NACHURS® Bio-K® is an innovative technology that delivers a readily available source of potassium. Unlike other forms of potassium, NACHURS® Bio-K® utilizes a natural plant metabolite as a carrier, which provides the most efficient nutrient uptake. Using Bio-K® technology results in quicker germination, improved root development, and an elevated abiotic stress tolerance; leading to better plant establishment, more vigorous growth, and higher yields.



ELEVATE YOUR K® with NACHURS® Bio-K®



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



## NACHURS® GENERAL RECOMMENDATIONS PREMIUM LIQUID STARTER & FOLIAR FERTILIZERS



### ALL FIELD CROPS OR DIRECT SEEDED CROPS:

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 distributor or agronomist for specific fertility recommendations.

### EARLY APPLICATIONS FOR SEEDED CROPS:

Applications of NACHURS liquid fertilizers early in the plant's life can encourage development, increased growth, vigor, and yield potential. NACHURS liquid fertilizer may effectively be applied at the first to second true leaf stage directly to the small plant.

### NACHURS LIQUID FERTILIZER FOR FOLIAR APPLICATIONS:

- NACHURS liquid fertilizer is a highly soluble, low salt index formulation developed to supplement standard soil fertility practice.
- NACHURS liquid fertilizer provides an additional source of nitrogen, phosphorous and potassium during the growing season.
- NACHURS liquid fertilizer is designed to be used in conjunction with soil and tissue tests and professional recommendations to manage the nutrient levels and nutrient balance within the crop.
- NACHURS liquid fertilizer is in the form readily absorbed by plant tissue. In this form, nitrogen, phosphorous and potassium can be applied to the growing plant.
- NACHURS liquid fertilizer can be applied with most herbicides, insecticides, and fungicides.

### FOLIAR APPLICATION:

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

NACHURS foliar fertilizers are manufactured with the highest quality raw materials on the market today and includes only available, chelated micronutrients to maximize foliar absorption. NACHURS foliar fertilizers 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.**

### 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.

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

### MIXING PROCEDURE:

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 liquid fertilizer
6. Add NACHURS chelated micronutrients
7. Add remaining water volume and agitate before spraying

**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 distributor 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 distributor 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** mix N-P-K with UAN 32% or 28%.
- **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.