



# Humic Acid

## STORAGE & HANDLING:

Store in a cool dry place above 45°F. Do not store product in temperatures above 90°F. Avoid storage in areas with direct sunlight.

## FIRST AID:

**EYES:** Flush eyes with plenty of cold water for 15 minutes. Get medical attention if irritation persists.

**SKIN:** Wash affected areas with soap and cold water. Consult a physician.

**INGESTION:** Do Not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

## NET CONTENTS & WEIGHT

Net Contents: 2.5 Gallon  
22.25 lbs

Net Weight: 8.9 lbs per gal

## CONTACT US:

Mat 308.708.8753  
Erik 308.991.4578  
Chad 308.440.4622  
www.gothafa.com  
sales@gothafa.com

## APPLICATION:

Mix 1-5 gallons depending on use and location.

## ADVANTAGES:

- Increases drought, heat and cold resistance.
- Improves soil moisture.
- Restores soil carbon balance.
- Reduces water runoff.
- Improves trace-element nutrition through chelation.
- Helps prevent/correct chlorosis.
- Holds exchangeable plant nutrients.
- Improves soil physical properties and food web diversity.
- Contains salt buildup by reducing soil acidity.
- Reduces fertilizer usage.
- Reduces pesticide use.
- Helps control pollutant contamination.
- Holds exchangeable plant nutrients.

## CAUTION:

### KEEP OUT OF REACH OF CHILDREN.

Keep this product out of eyes. Do not swallow this product. Recommend wearing safety glasses or goggles when eye contact is possible. This use of rubber, neoprene, nitrile or other resistant gloves may be necessary under conditions of prolonged use. Remove contaminated clothing. Wash hands thoroughly with soap and water after handling.

## DISCLAIMER OF WARRANTIES

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# Ha-Fa N-Gen

Nano-Driven All-Natural Bio Nitrogen Adjuvant

## DOSAGE:

Use following mix ratio per one acre.

Standard Suggested

Mix Ratio:

Ha-Fa N-Gen

16 - 32 fl oz Foliar

16 fl oz In-Furrow

16 oz Ha-Fa N-Gen

100 gallons of water optional

Pivot Irrigation Application

32 fl oz / acre

## CAUTION:

Keep out of reach of children and pets. Use as directed.

## NET CONTENTS & WEIGHT

Net Contents: 2.5 Gallon  
9.463 liters

Net Weight: 10 lbs. per gallon, 1199 grams/liter

## CONTACT US:

Mat 308.708.8753

Erik 308.991.4578

Chad 308.440.4622

www.gothafa.com

sales@gothafa.com

## HA-FA N-GEN TECHNOLOGY:

A custom engineered selective group of microbes that produce specific enzymes within the leafing plant cell tissue. Natural microbes are selected for their capabilities to provide superior crop health and production through enhanced rhizosphere activity and bio-stimulation of plants. The rhizosphere process plays an important role in regulating the soil organic matter decomposition and nutrient cycling. These microbes are safe, natural, and NOT genetically modified to assist the plants natural nitrogen intake of soil and atmospheric nitrogen.

## BENEFITS:

Ha-Fa N-Gen will not harm crops or soil. When applied during planting, Ha-Fa N-Gen will not harm the seeds or the soil microbes and will not interfere with liquid fertilizers or herbicides for chemigation. Ha-Fa Industries does not recommend decreasing fertilizer inputs.

## MIXING INSTRUCTIONS:

A jar compatibility test is recommended when mixing with other products.

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## Activator Adjuvant

### CROP USE GUIDELINES

| CROP                                    | OZ./Acre | Timing and Frequency                          |
|---|----------|---|
| <b>Corn</b> (field, sweet, and popcorn) | 2 oz.    | Apply at seed furrow planting                 |
|   | 3.2 oz.  | Spray in band at 5 to 8 leaf stage            |
|   | 6.4 oz.  | OR<br>5 - 8 leaf stage                        |
| <b>Soybeans</b>                         | 2 oz.    | Apply in furrow with seed                     |
|   | 3.2 oz.  | Spray at early bloom                          |
|   | 6.4 oz.  | OR<br>Early bloom                             |
| <b>Wheat</b> and other small grains     | 3.2 oz.  | Apply prior to jointing                       |
|   | 3.2 oz.  | Apply at flag leaf stage                      |
|   | 6.4 oz.  | OR<br>Apply at flag leaf stage                |
| <b>Cotton</b>                           | 2 oz.    | Apply in seed furrow with 1-2 gals water/acre |
|   | 3.2 oz.  | Spray at pin-head square                      |
|   | 3.2 oz.  | Spray at first bloom                          |
|   | 5 oz.    | OR<br>At pin-head square                      |
|   | 5 oz.    | OR<br>At first bloom                          |
| <b>Alfalfa</b>                          | 2 oz.    | Per cut of seed                               |
|   | 6-8 oz.  | After each cutting                            |

Seed: Apply 2 oz. per 100 pounds of seed.

### Rates for crops not listed call your local rep or manufacturer

The directions for use of this product reflect the opinion of experts based on field and use test. The directions are believed to be reliable and should be followed carefully. However it is impossible to eliminate all risks associated with this

product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or applications all of which are beyond the control of StimuPro Plus, or the Seller. All such risks shall be assumed by the Buyer. Jar test is recommended.

#### DIRECTIONS FOR USE

**StimuPro Plus Adjuvant can be used to enhance most major insecticides, herbicides, fungicides, and fertilizers.**

#### SHAKE WELL BEFORE USING

Good growing conditions are necessary for the maximum benefits from utilization of StimuPro Plus. For maximum gain from the use of StimuPro Plus, a well-balanced plant nutrition program based on soil tests or tissue analysis should always be used. Timing of the foliar spray application is very important. Do not apply when temperatures are above 95 degrees F or within eight hours of forecast of rain.

StimuPro Plus contains vital plant micro nutrients essential to promote vigorous plant growth intended for application on a broad range of plants, shrubs, flowers, potted plants, garden vegetables, turf, and commercial crops. StimuPro Plus also contains Ligno-proteins, amino acids, organic complexing agents, and natural plant extracts. It is not phytotoxic when used as directed.

#### KEEP OUT OF REACH OF CHILDREN CAUTION

May be harmful if swallowed or absorbed through skin! May cause skin irritation! Do not breath vapor or spray mist. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling.

**Net Contents: 2 1/2 Gal. (9.45 liters)  
Net Weight: 24.25 lbs. (11.0 kg)**

**SHAKE WELL BEFORE USING  
STORE ABOVE 30 DEGREES F.**

#### Potatoes (Red, White, or Sweet):

Dip potato seed pieces in a solution of 1 part StimuPro Plus to 375 parts water (1/3 oz. per gallon water) for 30 to 60 seconds or spray seed pieces with the above solution so that the seed pieces are covered and thoroughly wetted. StimuPro Plus can be used with a fungicide program.

**1st Application** – Apply 3.2 fl. oz. per acre tubar initiation which occurs 4 to 6 weeks after emergence.

**2nd Application** – Apply 3.2 fl. oz. per acre 2 to 3 weeks after the first application. The last application should be at the beginning of bloom in those varieties that flower.

**Transplants:** For a quick start dip roots in a solution of 1 tablespoon (1/2 oz.) StimuPro Plus per gallon of water prior to transplanting.

**Shrubs, Flowers, Potted plants, and Garden Vegetables:** 1/2 tablespoon (1/4 oz.) StimuPro Plus per quart water or 1 oz. StimuPro Plus per gal water: **mist lightly** every 7 to 10 days.

**Lawns and Turf:** 1 oz. per 1000 sq. ft. Apply every 21 to 28 days in a minimum of 10 gal. water per acre.

**Commercial Turf:** Apply 8 oz. StimuPro Plus per acre at a 4 to 6 week interval for best results under normal conditions. If turf is stressed, apply 1 pint per acre.

| CROP   | OZ./Acre | Timing and Frequency                           |
|--|----------|--|
| <b>Cucurbits</b> (watermelon, cantaloupe, cucumbers& muskmelons) | 1 oz.    | Banded at 2-4 leaf stage                       |
|  | 2 oz.    | Banded when plants first start to show runners |
|  | 3.2 oz.  | Broadcast 2 weeks after second application     |

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# Sugar Rush

Mineral Fortified For Faster Absorptions

## NOTE:

Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

## NET CONTENTS & WEIGHT

Net Contents:  2.5 Gallon  275 Gallon  
 9.45 liters 1039.5 liters  
 Net Weight: 22.25 lbs/10.09 kg 2447.5 lbs/1110.17 kg

## CONTACT US:

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 Erik 308.991.4578  
 Chad 308.440.4622  
 www.gothafa.com  
 sales@gothafa.com

Designed to be used by itself or it can be mixed with various other fertilizer formulations for in-furrow or foliar application.

## DIRECTIONS:

General recommendation: use 16-32 fl oz per acre, with 10-15 gallons of water. For best results apply 3 times during the growing season. Application should be made directly to the leaf surface in the form of a foliar spray. Mix well before applying.  
 Soil or Drip irrigation system: use 16-24 fl oz per acre with every feeding cycle.  
 During seed and planting: use 16-20 fl oz per acre with 10-15 gallons of water.

## RECOMMENDATIONS:

To ensure compatibility, a jar test or strip test should be conducted before adding to your tank mix. Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

## NOTE:

This product does not contain any type of Plant Growth regulators, or Vitamin hormones.

## GUARANTEED ANALYSIS

|                 |         |
|-----------------|---------|
| Molybdenum (Mo) | 0.0005% |
|-----------------|---------|

Derived from: Sodium Molybdate

## CONTAINS NONPLANT FOOD INGREDIENT(S)

|                                      |        |
|--------------------------------------|--------|
| Humic Acid (Derived from Leonardite) | 0.078% |
|--------------------------------------|--------|

|  |       |
|--|-------|
| Liquid Sugar Cane Extract (Microbe Food) | 48.0% |
|--|-------|

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# E MAX SOIL ZYME 2.0

## SOIL ZYME MICROBES

### APPLICATION:

**Foliar** - Apply 12.8 to 32 fluid ounces per acre, premix with 8 to 10 gal of water or can be added to chemicals or fertilizer.

**Infurrow** - Apply 12.8 to 32 fluid ounces per acre, premix with 5 to 10 gal of water or can be added to fertilizer.

**Side Dress** - Apply 12.8 to 32 fluid ounces per acre, premix with 5 to 10 gal of water or can be added to fertilizer.

**Note:** As in nature, the organic materials in this product release their nutrients slowly thus it may be two to three weeks before maximum effect. Results may vary depending on present conditions.

### FEATURES:

This product is made with 100% organic composition. Contains no animal fat or manure. Always conduct a jar test.

**E Max Soil Zyme 2.0** contains balanced minerals and humic acids with other essential nutrients. This composition helps break down salts as well as alleviate soil compaction to help release tied up minerals in the soil. Specially cultured SEBS soil microbes decompose chloride and other sodium based salt that interferes with soil pH. **E Max Soil Zyme 2.0** will help balance the soil pH and assist in increasing nutrient and fertilizer uptake for healthier plant growth.

### SULFATE OF POTASH:

A natural Sulfur/Potassium product extracted from the Great Salt Lake is essential for strong healthy plants.

### MOLASSES:

A carbohydrate that feeds to deeper roots and provides beneficial microbes for stronger roots and healthier plants.

### HUMATE:

Leonardite 60% - 75% Humic Acid. Provides many benefits including improved efficiency of nutrient uptake and eliminating soil compaction.

### SOLUBLE SEAWEED EXTRACT:

Provides a rich nutrient source containing many major and minor nutrient elements.

### GUARANTEED ANALYSIS

|                                   |           |
|-----------------------------------|-----------|
| Molasses with beneficial microbes | 8% - 10%  |
| E-Bac Microbes                    | 20% - 30% |
| Humate: water base pH balance     | 10% - 12% |
| Seaweed Extract                   | 5% - 8%   |
| Iron Chelated water base          | 4% - 6%   |
| Manganese water base              | 4% - 6%   |

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# EST NPK 32-0-0

## GLEAM NITROGEN TECHNOLOGY

### CONTAINS LESS THAN 2% SALT

**Guaranteed Analysis:**

|   |          |
|---|----------|
| Total Nitrogen (N)-----                                   | 32%      |
| 20.0% Ammoniacal Nitrogen                                 |          |
| 12.0% Urea Nitrogen (N)                                   |          |
| Available Phosphate (P <sub>2</sub> O <sub>5</sub> )----- | 0.0%     |
| Soluble Potash (K <sub>2</sub> O)-----                    | 0.20%    |
| Calcium (Ca)-----   | 0.100%   |
| Magnesium (Mg)-----                                       | 0.50%    |
| 0.50% Water Soluble Magnesium (Mg)                        |          |
| Sulfur (S)-----   | 1.00%    |
| 1.00% Combined Sulfur (S)                                 |          |
| Boron (B)-----  | 0.02%    |
| Chlorine (Cl)-----  | 0.10%    |
| Cobalt (Co)-----  | 0.0005%  |
| Copper (Cu)-----  | 0.05%    |
| Iron (Fe)-----  | 0.10%    |
| 0.05% Dehydrated Iron (Fe)                                |          |
| 0.05% Water Soluble Iron (Fe)                             |          |
| Manganese (Mn)-----                                       | 0.05%    |
| 0.04% Water Soluble Manganese (Mn)                        |          |
| Sodium (Na)-----  | 0.10%    |
| Zinc (Zn)-----  | 0.05%    |
| 0.5% Chelated Zinc (Zn)                                   |          |
| Water-----  | 65.2295% |

Plant Nutrients derived from: Diammonium phosphate, urea, sulfur coated urea, murate of potash, Calcium carbonate, Magnesium Sulfate, Ammonium Sulfate, Borax, Copper Chloride, Iron Citrate, Ferrous Sulfate, Manganese Sulfate, Zinc EDTA

Information about the components of this lot number of fertilizer may be obtained by writing to the manufacturer/guarantor. Include the lot number in your request. Lot numbers will be found to the right of the label.

Manufactured and Guaranteed by:  
 EST, Inc \* POB 11237 \* Shawnee Mission KS 66207  
 Telephone: 913-677-4900



**Directions & Application Rate:**  
 Shake well before using. Apply as directed. Mix 1.5 lbs of NPK 32-0-0 per 15-20 gallon of water per acre. Apply as needed throughout growing season. Rate will be based on soil condition and type of crop. For best result, application should be applied in a foliar spray directly to the leaf surface to maximize absorption by the plant. Product can be applied through irrigation systems or tank sprayers. Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

Made in the USA

*Use this blend to promote healthy plant growth and deep green foliage. NPK 32-0-0 is concentrated and is recommended to be diluted per the application rate. It should be used as a supplement to an existing fertilization program.*

- 2.5 Gal / 27.75 Lbs U.S.
- 5 Gal / 55.5 Lbs U.S.
- 55 Gal / 610.5 Lbs U.S.
- 275 Gal / 3052.5 Lbs U.S.

**CAUTION**  
 Keep this product out of eyes. Do not swallow this product. Recommend wearing safety glasses or goggles when eye contact is possible. This use of rubber, neoprene, nitrile or other resistant gloves may be necessary under conditions of prolonged use. Remove contaminated clothing After handling, wash hands thoroughly with soap and water.

**FIRST AID**  
**Eye Contact:** Flush eyes with plenty of cold water for 15 Minutes. Get Medical Attention if persists.  
**Skin Contact:** Wash affected areas with soap and cold water. Consult a physician.  
**If Swallowed:** Do Not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration of liquid into the lungs. Get medical attention immediately.

**STORAGE**  
 KEEP FROM FREEZING  
 STORE AWAY FROM FOOD & DRINK



## CARBON REGULATOR

### CARBON REGULATOR

**Carbon Regulator** is Nano-enhanced for faster absorptions and it is designed to regulate and activate atmospheric CO<sub>2</sub> (Carbon dioxide) and O<sub>2</sub> (Oxygen), Extremely improves transmission of atmospheric CO<sub>2</sub> intake and output of O<sub>2</sub>.

**Technical Effect:** Boost crop yields by increasing the rate of photosynthesis, which spurs growth, and help reduce and conserve the amount of water crops lose through photosynthesis transpiration process.

**Important Facts:** Which happens during the night cycle plants actually gives off CO<sub>2</sub>. This causes a gradual increase during the night, until the day and sunlight come on and the plants resume absorbing CO<sub>2</sub> and releasing O<sub>2</sub>.

**Features:** Improve photosynthesis by activating atmospheric carbon transmission. Balances the ratio of CO<sub>2</sub> and O<sub>2</sub>, which helps naturally occurring enzyme in plants convert food source into energy for healthier plant growth.

#### Benefits & Results

- Much improved photosynthesis,
- Increase uptake of nitrogen and micronutrients
- improves plant metabolic activity and health
- Improves plant immunity and diseases fighting capabilities
- Improves CO<sub>2</sub> to O<sub>2</sub> conversion rate
- Help reduce and lower atmosphere carbons
- Maximize yield
- Improves moisture uptake and stop moisture loss
- Improves greening effects

#### APPLICATION

**Application:** One to three applications during growing season. Foliar is preferred, but also can be side dressed. Apply and use as needed, consult your dealer for details. Application rate may be very depending on the crop type and conditions.

**General application Rate per acre-** 1–2 quarts per acre mix with 10–15 gallons of water.

**NOTE:-** Carbon Regulator–Does not contain any type of growth hormones, regulators or steroids.

#### GUARANTEED ANALYSIS

##### ALSO CONTAINS NONPLANT FOOD INGREDIENTS

|       |                                      |
|-------|--------------------------------------|
| 10.0% | Humic Acid (Derived from Leonardite) |
| 5.0%  | Seaweed Extract (Microbe Food)       |
| 5.0%  | Dipotassium Carbonate EDTA           |

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.html>

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones. Contains less than 2% salt.

#### SHELF LIFE

Minimum 12 months or more when in same container kept at temperature between 45°F–90°F. Net Weight: 9.35 lbs./gallon or 4.241 kg.

## RAPID ASCENT-10X (cont.)

### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-salt/salt-free formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations. Traditional lab test methods do not represent the total/actual percentages value of components compared to equally listed salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on type of soil, soil condition, soil testing, climate and seed type.

It is always recommended to perform a jar test to ensure compatibility.

### STORAGE AND HANDLING

**Note:** Follow directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 120 °F, or below 40 °F.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.**

**STORE AWAY FROM FOOD AND DRINK.**

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### CAUTION

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.**

**KEEP OUT OF REACH OF CHILDREN.**

**KEEP FROM FREEZING.**



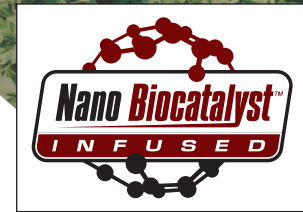




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# BIO N-RX



## NANO-DRIVEN ALL-NATURAL BIO ADJUVANT

### DOSAGE

Use following mix ratio per one acre.

Standard Suggested Mix Ratio:

#### BIO N-Rx

16 - 32 fl oz Foliar

16 fl oz In-Furrow

16 oz AgpHRx

100 gallons of

water optional

Foliar 10 to 20 gallons

of water and can be

pivot applied

Caution: Keep out of reach of children and pets. Use as directed.

### BIO N-RX TECHNOLOGY:

A custom engineered selective group of microbes that produce specific enzymes within the leafing plant cell tissue help shut down microbes that are producing amino acids in various weed species. Designed to use up moisture from plant cells and dehydrate the cell and capillaries permanently.

#### Pulls 18% or more Nitrogen from the atmosphere which is equal to about 43.8# of Nitrogen

- Decreases stress caused by herbicides and improves and maintains continuous growth cycle.
- Supports and improves abiotic stress tolerance.
- Supports native beneficial soil organisms and beneficial microbes.
- Increases metabolic activity of soil microorganisms.
- Increases root activity for larger, stronger root systems.
- Changes soil cation exchange capacity (CEC).
- Helps condition the soil for improved plant performance and vigor.
- Increases plant abiotic resistance, water retention, fertilizer efficiency with enhanced nutrient availability.
- Activates native soil organisms; increases root activity for larger, stronger root systems, increases metabolic activity of soil microorganisms.
- In foliar application, increases photo-catalytic and photosynthesis activity for much needed energy during stress periods.
- Enhances growth of leaves and canopy closure, larger diameter stems, and bigger root systems, leading to a healthier stand.
- Improves the health, appearance, and size of crops and provides exceptional foliar and soil nutrition.
- Helps colonize roots with beneficial organisms.

#### Environmental Benefits of BIO N-Rx

- Some mature plants with bigger foliage can pull up to twice as much usable CO2 from the atmosphere.
- Helps cover crops and other row crops keep carbon much longer in the soil.
- Helps with carbon storage by passing down to the roots systems.
- Increases utilizations of CO2 and other greenhouse gases.
- Helps purify atmospheric pollutants and airborne carbons.
- Helps improve Carbon to Oxygen ratio at faster level.
- Helps plants breath better and improves utilization of CO2.
- Overall helps with reducing Carbon footprint.

#### Plant Benefits of BIO N-Rx

- Increases size of root mass and foliage and can improve yields.
- Better plant resistance, increased water retention, greater fertilizer efficiency, and enhanced nutrient availability.
- Activates native soil organisms, increases root activity for stronger root systems, and increases metabolic activity of soil microorganisms.
- When applied foliar, microbes increase photo catalytic and photosynthesis activity for much needed energy during stress period when applied together with herbicide.
- When applied in-furrow, microbes will help produce plant growth hormones naturally - designed to improve root mass and optimize crop performance.
- Enhances growth of leaves and canopy closure, larger diameter stems, and bigger root systems, leading to a healthier stand.
- Improves the health, appearance, and size of crops and provides exceptional foliar and soil nutrition.
- Helps colonize roots with beneficial organisms and crowds out or excludes pathogenic organisms.

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# MICRONUTRIENT CHELATED LIQUID ZINC (ZN) 9.0.

BALANCE AND FIX ZINC DEFICIENCY IN PLANTS AND SOIL • NANOTIZED MOLECULES

## GENERAL RECOMMENDATION:

Corn, Soybeans, Sorghum, Cotton, Sugar Beets, Wheat, and other field crops that have a medium to high response to zinc.

## USE RATE:

Mix Chelated Zinc 9.0 at 20-24 oz. per acre.

## IMPORTANT NOTE:

Always check compatibility with other products prior to use. Since weather, crops, soil, and other conditions may vary, EST Inc., and/or the Seller/Distributor make no warranty of any kind, expressed, or implied concerning the use of this product. The user assumes all risk of use of this product storage and handling whether or not in accordance with directions or suggestions as described.

Micronutrient Chelated Liquid Zinc 9.0 is specially designed to balance and fix zinc deficiency in plant and soil. Its Nanotized molecules penetrate and absorb deeper in foliar and soil particles at a much faster rate than regular micro size zinc particles. Micronutrient Chelated Liquid Zinc 9.0 delivers essential micronutrient Zinc more than twice as fast to fix the problem with the plant and soil very rapidly. Micronutrient Chelated Liquid Zinc 9.0 is a first choice when applied as a foliar spray.

## MIXING INSTRUCTIONS:

Mixing with UAN and other liquid fertilizer solutions:  
Liquid Zinc 9.0 may be mixed in any ratio with 28% or 32% low salt urea ammonium nitrate (UAN) solutions.

## MIXING WITH NPK SOLUTIONS:

Generally, no more than a ½ gallon of Liquid Zinc 9.0 should be added to 10 gallons of clear liquid mixed fertilizers such as 9-18-9, 14-36-12 or 8-16-8. Chelated Liquid Zinc 9.0 can be applied by itself or diluted with water, and it is not recommended to be applied directly on seed prior to planting. Always check compatibility with other products prior to use. Do not mix with liquid fertilizers high in orthophosphate or high salt base liquid fertilizers.

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## GUARANTEED ANALYSIS:

|   |       |
|---|-------|
| Zinc (Zn)                                     | 9.00% |
| Derived from: Zinc Chloride, and Zinc Sulfate |       |
| Liquid Humic with Carbon                      | 2.00% |

## TECHNICAL DATA:

|                         |         |
|-------------------------|---------|
| Specific Gravity        | 1.10    |
| Weight per gallon       | 9.25 lb |
| Equilibrium Temperature | 10°F    |
| pH                      | 9.3     |
| VOC                     | 0.0%    |

## BASIC FEATURES:

Chelated Liquid Zinc 9.0 is specially designed for soil application to crops requiring zinc. Chelated Liquid Zinc 9.0 can be mixed with liquid polyphosphate fertilizers, 32% or 28% low salt nitrogen solutions and aqua ammonia. Apply the recommended rates shown on this product data or use in accordance with recommendations of a qualified individual or institution, such as, a certified crop advisor, agronomist, or apply according to recommendations of an approved nutrient management plan. Consideration for timing, rate, and placement are important for best results. Application rates may vary depending on the crop's need for zinc and soil fertility levels.

## CAUTION:

Keep out of reach of children, pets and livestock. Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Refer to the Material Safety Data Sheet (MSDS) for important environmental, safety, and health information. This product is not considered to be or to contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.



**NANO AG TECHNOLOGIES, LLC**  
FACTORY DIRECT NANO SOLUTIONS

# PHOSPHORUS BALANCER (0-24-0)

## DESIGNED WITH MICRO MOLECULAR TECHNOLOGY

**CAUTION:** Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and DO NOT wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling. **KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS. STORE AWAY FROM FOOD AND DRINK.**

### FIRST AID:

**Eyes:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**Skin:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**Ingestion:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### NET CONTENTS & WEIGHT

|             |                                     |                                     |
|-------------|-------------------------------------|-------------------------------------|
| Net         | <input type="checkbox"/> 2.5 Gallon | <input type="checkbox"/> 275 Gallon |
| Contents:   | 9.45 liters                         | 1039.5 liters                       |
| Net Weight: | 26.25 lbs/11.93 kg                  | 2887.5 lbs/1312.5 kg                |

10 Quail Cove W. | York, NE 68467

[www.nanoagtechnologies.com](http://www.nanoagtechnologies.com)

Made in the U.S.A.

**Phosphorus Balancer 0-24-0** is designed with micro molecular technology (Microscopic Macro particles) that is designed to stay in suspensions and will not clog applicator spray nozzles. Absorption rate is 3 to 4 times higher than regular phosphorus based products. Phosphorous is one of the major elements essential for plant growth. Upon foliar application the phosphorous in **Phosphorus Balancer** can be taken up directly by the plant leaves and used by the plant.

### DIRECTIONS FOR USE:

Shake or stir well prior to use.

### APPLICATION RATE:

Use 28 to 36 ounces to 15 gallons of water per acre. Shake well before using. Rate is based on soil condition and type of crop. A soil test is advisable prior to application. Product can be foliar feed when intended target is four-six inches tall in order to maximize absorption by the plant. Product can be applied through the irrigation systems or tank sprayers. Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extensions publication, or apply according to recommendations in your approved nutrient management plan.

### STORAGE: KEEP FROM FREEZING

#### GUARANTEED ANALYSIS

|  |        |
|--|--------|
| Total Nitrogen (N)                                   | 0.15%  |
| .09% Ammonical Nitrogen                              |        |
| .06% Urea Nitrogen                                   |        |
| Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) | 0.20%  |
| Soluble Potash (K <sub>2</sub> O)                    | 0.81%  |
| Inert Ingredients                                    | 75.04% |

\*Plant Nutrients derived from: Diammonium phosphate, Muriate of Potash, Sulfur-coated Urea, and Ammonium Sulfate.

### DISCLAIMER OF WARRANTIES

Nano Ag Technologies, LLC hereby excludes all warranties, express or implied. Nano Ag Technologies, LLC expressly disclaims any warranty of merchantability and any warranty of fitness for a particular purpose. There are no representations between Nano Ag Technologies, LLC and any third party other than those expressly set forth in this writing, and all reliance with respect to any representations set forth in this writing. The purchaser of any product sold by Nano Ag Technologies, LLC accepts the product "as is" and the purchaser assumes any and all risks associated with the use of the product.



## IRON RITE IRON BALANCE (FeSO<sub>4</sub>)

### CONCENTRATED, CHELATED, LIQUID-IRON SUPPLEMENT FOR PLANTS

#### PRODUCT DESCRIPTION

With alkaline soil, iron chlorosis may cause new growth to be a pale green or yellow color. Iron chlorosis develops from the lack of iron in the soil, or because iron is unavailable for uptake by plants. Liquid Iron Rite Iron Balance supplement provides iron that is instantly bioavailable to plants and remains in the soil for the extended feeding cycle— longer than most EDDHA and other liquid iron products. Liquid Iron Rite Iron Balance is suitable for all plants and it is compatible with most tank mixes of fertilizers or pesticides.

#### FEATURES AND BENEFITS

- Prevents or cures iron deficiency in plants.
- Ideal for row crops, turf, sod, ornamental shrubs, trees, and gardens.
- Makes iron immediately more available to plants versus any other leading brand.
- Cuts down on frequent application; saves time and money.
- Eco-friendly and qualifies for all horticultural farming applications.
- Easily diluted and will not clog sprayer or nozzle.
- Can be made with higher concentrations in aqueous solutions.
- Contains less salt than most liquid Iron products.

#### BENEFITS

- Corrective Greening effects.
- Supports native soil organisms and beneficial microbes.
- Increases metabolic activity of soil microorganisms
- Supports beneficial microbes in the soil.
- Increases root activity for larger, stronger root systems.
- Changes cation exchange capacity (CEC).
- Helps condition the soil for improved plant performance and vigor.

#### EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Easy to handle and tank mix.
- Economical, with low application rates.
- Can be applied through irrigation systems.
- Can be applied with drip irrigation system.
- Can be applied in-ground or side dressed.
- Designed to be used by itself or mixed with various other NPK fertilizer formulations.
- Can be mixed with various liquid fertilizers formulations and herbicides.

# IRON RITE IRON BALANCE (FeSO<sub>4</sub>) (cont.)

## DIRECTIONS

Dilution rates may vary depending on the crops or the plants. Soil test may be necessary to determine true iron deficiency for selecting correct amount of application.

### General Guideline for Dilution

**Seed Furrow (Broadcast):** Apply 1–2 quarts per acre before planting and incorporate into the upper 3-5 inches of soil.

**Band or Strip-Till:** Apply 1–2 quarts per acre with water or liquid fertilizer carrier placed beside and/or below the seed furrow.

**Ground Equipment:** Mix 1–2 quarts with 10–15 gallons of water per acre and spray onto the crop foliage. For orchards and other tree crops use at least 100 gallons of water per acre.

**Foliar Application:** For best results use the lowest possible volume for thorough coverage and a small droplet size.

**Spray Equipment:** Mix with a minimum of 10–15 gallons of water per acre.

**Orchards and other tree crops:** Use at least 10–15 gallons per acre of water.

**For root feeding trees and shrubs,** mix 4 oz per inch of trunk diameter with 5–10 gal of water and pour or inject into the drip line. Use 1 gal per 64 gal of water for foliar applications.

**Corrective Use:** Mix 2–4 quarts of liquid Iron Rite Iron Balance for plants with 12–15 gal of water to cover one acre for turf application.

**For Lawn and Turf:** 2–4 pints to cover 10,000 sq ft

**For home landscape and gardens:** 1–2 fl oz per gallon to cover 1,000 sq ft.

**For Row Crops like Corn, Beans, Milo, Wheat, Alfalfa, Sorghum:** Use 2–4 quarts per acre with 12–15 gal of water based on soil tests.

*These products may be used on many different crops. Rate information provided is a range and not specific to one crop.*

For a customized application rate, please contact your EST representative.

## GUARANTEED ANALYSIS

|  |        |
|--|--------|
| Copper (Cu)<br>0.05% - Chelated Copper       | 0.05%  |
| Iron (Fe)<br>10.00% - Chelated Iron          | 10.00% |
| Manganese (Mn)<br>0.05% - Chelated Manganese | 0.05%  |

**Plant nutrients derived from:** Magnesium Sulfate EDTA, Copper Sulfate EDTA, Iron Sulfate EDTA, Chelating Agent: Ethylenediaminetetraacetic Acid

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones. Contains less than 2% salt.

## WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-salt/salt-free formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations. Traditional lab test methods do not represent the total/actual percentages value of components compared to equally listed salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on type of soil, soil condition, soil testing, climate and seed type.

It is always recommended to perform a jar test to ensure compatibility.

## IRON RITE IRON BALANCE (FeSO<sub>4</sub>) (cont.)

### STORAGE AND HANDLING

**Note:** Follow directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 120 °F, or below 40 °F.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.**

**STORE AWAY FROM FOOD AND DRINK.**

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### CAUTION

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.**

**KEEP OUT OF REACH OF CHILDREN.**

**KEEP FROM FREEZING.**





## IRON RITE IRON BALANCE (FeSO<sub>4</sub>) (cont.)

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## POTASH WITH HUMIC

Potash with Humic is a potassium solution, which can be used in foliar application or applied to soil, or side-dress at planting. It can also be applied in combination with other crop production or protection products and presents a low risk of crop injury.

When applied as recommended, Potash with Humic may produce equivalent or better crop response compared to higher rates of conventional potassium fertilizers. Potash with Humic is processed and formulated with macromolecular technology to help increase absorption rate greater than 3–5 times better than any conventional potassium-based products.

Potash with Humic can be used in any cropping situation where potassium is needed, and its unique formula provides increased crop utilization, allowing lower total product application volume to produce and receive the greater results as other conventional potassium fertility products when applied at typical rates.

### PRODUCT FEATURES

- Fast absorbing liquid form to increase K uptake.
- Helps correct potassium deficiencies that reduced yield potential.
- Helps enhance micronutrient response.
- Increases energy for plant and growth.
- Potassium helps with fruit formation and maturity.

Potash with Humic can provide potassium fertility depending on soil conditions, type of application, and rate. If applied with other crop production or protection products, please consult a representative or your dealer for the best application method to achieve optimal results for your specific crop and soil conditions.

### DIRECTIONS

Potash with Humic is the ideal product for supplying potassium to any crops and is applied by broadcast or banded over the top of the seed zone, alongside as in a 2" by 2" spread, as a top-dressing or a side-dress application, as part of a foliar fertility program, or through fertilization.

### APPLICATION

**Vine, field, vegetable, and tree:** Apply Potash with Humic at the rate of 2–4 quarts per acre approximately 3–4 weeks before harvest. Repeat 2–4 quarts per acre at approximately 7–10 days before harvest.

**Row Crops:** Apply ½ gal to 2 gal per acre depending on type of crop and soil conditions. Soil test is recommended before determining proper dosage requirement for specific crop and soil conditions. Follow directions carefully. Consult your dealer or supplier for timing and methods of applications, weather, and crop conditions.

**Recommended Dosage Rate:** 96–128 fluid ounces per acre for High Rate Application Dosage and 64–85 ounces per acre for Low Rate Application Dosage.

## GUARANTEED ANALYSIS

|                                   |        |
|-----------------------------------|--------|
| Soluble Potash (K <sub>2</sub> O) | 15.00% |
|-----------------------------------|--------|

*Plant Nutrients derived from: Muriate of Potash*



## POTASH WITH HUMIC(cont.)

### ALSO CONTAINS NONPLANT FOOD INGREDIENTS

|        |                                      |
|--------|--------------------------------------|
| 0.078% | Humic Acid (Derived from Leonardite) |
|--------|--------------------------------------|

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones.

#### EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Can be applied through irrigation systems or fertigated through sprinkler systems.
- Can be mixed with various liquid fertilizers formulations.
- Easy to handle and tank mix for foliar application.
- Liquid form enhances application and accuracy.

#### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-Enhanced and low-sodium (salt) formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on type of soil, soil condition, soil testing, climate, and seed type.

It is always recommended to perform a jar test to ensure compatibility.

#### STORAGE AND HANDLING

**Note:** Follow directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 120 °F, or below 40 °F.

#### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

#### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.**

**STORE AWAY FROM FOOD AND DRINK.**

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

# POTASH WITH HUMIC(cont.)

CAUTION

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP FROM FREEZING.**





## POTASH WITH HUMIC(cont.)

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## MICRO MIX LIQUID FOR CORN with BROWN SUGAR

### NANO-MOLECULAR MINERAL FUSION TECHNOLOGY

#### DESCRIPTION

Micro Mix Liquid for Corn with Brown Sugar was formulated for easy mixing, even distribution and consistent, uniform delivery of secondary and micronutrients to each plant. It provides a synergistic comprehensive and plant-available blend to complement a liquid NPK fertilizer program.

#### GUARANTEED ANALYSIS

|   |       |
|---|-------|
| Calcium (Ca)<br>1.80% - Chelated Calcium (Ca)     | 1.80% |
| Magnesium (Mg)<br>0.50% - Chelated Magnesium (Mg) | 0.50% |
| Boron (B)   | 0.10% |
| Copper (Cu)<br>0.25% - Chelated Copper (Cu)       | 0.25% |
| Iron (Fe)<br>2.00% - Chelated Iron (Fe)           | 2.00% |
| Manganese (Mn)<br>1.80% - Chelated Manganese (Mn) | 1.80% |
| Zinc (Zn)<br>2.3% - Chelated Zinc (Zn)            | 2.30% |

*Derived from: Calcium EDTA, Magnesium EDTA, Sodium Borate, Copper EDTA, Iron HEDTA, Manganese EDTA and Zinc EDTA. Chelating Agent: Ethylenediaminetetraacetic Acid*

#### ALSO CONTAINS NONPLANT FOOD INGREDIENT(S)

|       |                                   |
|-------|-----------------------------------|
| 5.50% | Sugar Cane Extract (Microbe food) |
|-------|-----------------------------------|

Contains less than 2% salt. EC

**NOTICE:** This product contains Boron (B). the use of the fertilizer material on any crops other than those recommended may result in serious injury to the crop(s).

#### APPLICATION OPTIONS

- Apply Micro Mix at 2–3 quarts per acre with NPK in furrow or 2 x 2 at planting
- Apply 2–3quarts Micro Mix per acre as a foliar between 6 and 12 leaf stages.
- Micro Mix can be applied with 1st or 3rd pass of a compatible fungicide.
- Apply 3–4 quarts Micro Mix per acre with NPK in furrow or 2 x 2 at planting and 1–2 quarts Micro Mix per acre as a foliar between 6–12 leaf stage.

**Note:** For more specific application rate per acre, please contact your distributor for details. Application rates may vary base on type of soil, climate and seed type.

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones.

#### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-salt/salt-free formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based

## MICRO MIX LIQUID FOR CORN with BROWN SUGAR (cont.)

formulations. Traditional lab test methods do not represent the total/actual percentages value of components compared to equally listed salt-based formulations.

Consult your dealer or agronomist for specific application rates per acre, application rates may vary based on soil test.

It is always recommended to perform a jar test to ensure compatibility.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

### CAUTION

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.  
STORE AWAY FROM FOOD AND DRINK.**

### FIRST AID

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP FROM FREEZING.**





## LIQUID POTASH CONCENTRATE 0-0-15

Liquid Potash Concentrate 0-0-15 is a potassium solution, which can be used in foliar application or applied to soil, or side-dress at planting. It can also be applied in combination with other crop production or protection products and presents a low risk of crop injury.

When applied as recommended, Liquid Potash Concentrate 0-0-15 may produce equivalent or better crop response compared to higher rates of conventional potassium fertilizers. Liquid Potash Concentrate 0-0-15 is processed and formulated with macromolecular technology to help increase absorption rate greater than 3–5 times better than any conventional potassium-based products.

Liquid Potash Concentrate 0-0-15 can be used in any cropping situation where potassium is needed, and its unique formula provides increased crop utilization, allowing lower total product application volume to produce and receive the greater results as other conventional potassium fertility products when applied at typical rates.

### DIRECTIONS

Liquid Potash Concentrate 0-0-15 is the ideal product for supplying potassium to any crops and is applied by broadcast or banded over the top of the seed zone, alongside as in a 2" by 2" spread, as a top-dressing or a side-dress application, as part of a foliar fertility program, or through fertilization.

### PRODUCT FEATURES

- Fast absorbing liquid form to increase K uptake.
- Helps correct potassium deficiencies that reduced yield potential.
- Helps enhance micronutrient response.
- Increases energy for plant and growth.
- Potassium helps with fruit formation and maturity.

Liquid Potash Concentrate 0-0-15 can provide potassium fertility depending on soil conditions, type of application, and rate. If applied with other crop production or protection products, please consult a representative or your dealer for the best application method to achieve optimal results for your specific crop and soil conditions.

### GUARANTEED ANALYSIS

|                                   |        |
|-----------------------------------|--------|
| Soluble Potash (K <sub>2</sub> O) | 15.00% |
|-----------------------------------|--------|

**Plant Nutrients derived from:** *Muriate of Potash*

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones.

### APPLICATION

**Vine, field, vegetable and tree:** Apply Liquid Potash Concentrate 0-0-15 at the rate of 2–4 quarts per acre approximately 3–4 weeks before harvest. Repeat 2–4 quarts per acre at approximately 7–10 days before harvest.

**Row Crops:** Apply ½ gal to 2 gal per acre depending on type of crop and soil conditions. Soil test is recommended before determining proper dosage requirement for specific crop and soil conditions. Follow directions carefully. Consult your dealer or supplier for timing and methods of applications, weather and crop conditions.

## LIQUID POTASH CONCENTRATE 0-0-15 (cont.)

### EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Can be applied through irrigation systems or fertigated through sprinkler systems.
- Can be mixed with various liquid fertilizers formulations.
- Easy to handle and tank mix for foliar application.
- Liquid form enhances application and accuracy.

### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-salt/salt-free formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on type of soil, soil condition, soil testing, climate and seed type.

It is always recommended to perform a jar test to ensure compatibility.

### STORAGE AND HANDLING

**Note:** Follow directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 120 °F, or below 40 °F.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.**

**STORE AWAY FROM FOOD AND DRINK.**

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### CAUTION

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.**

**KEEP OUT OF REACH OF CHILDREN.**

**KEEP FROM FREEZING.**





## LIQUID BROWN SUGAR WITH KELP, SEAWEED & MOLY

### MINERAL FORTIFIED WITH NATURAL KELP & SEAWEED EXTRACT FOR FASTER ABSORPTION

Liquid Brown Sugar with Moly adds complex carbohydrates in the form of bioavailable sugar to plants. Using brown sugar to add carbohydrates increase plant vigor. Carbohydrates help plants produce tissue, roots, stems, leaves, and blossoms.

#### BENEFITS

- Contains complex carbohydrates in the form of cane molasses.
- Help increase overall plant mass by improved nutrient uptake.
- Helps raise glucose level in your crops.
- Helps condition the soil for improved plant performance and vigor.
- Optimizes conditions for resistance and tolerance to abiotic stress.
- Promotes rapid nutrient uptake through the root system.
- Energizes beneficial microbes.
- Supports native soil organisms and beneficial microbes.
- Increases organic matter in the soil.
- Helps release of bound nutrients from the soil.
- Enhances plant nutrient availability and uptake by biodegradation of organic matter.
- Assists with calcium suspension during application with EST Inc.'s Dormant Calcium Sulfate – Nano-Enhanced and Liquid Calcium - Foliar.

#### EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Easy to handle and tank mix.
- Economical, with low application rates.
- Can be applied through irrigation systems.
- Can be applied with drip irrigation system.
- Can be applied in-ground or side dressed.
- Designed to be used by itself or mixed with various other NPK fertilizer formulations.
- Can be mixed with various liquid fertilizers formulations and herbicides.

#### DIRECTIONS

General recommendation; use 16–32 fl oz per acre, with 10–15 gallons of water. For best results apply 3 times during the growing season. Application should be made directly to the leaf surface in the form of a foliar spray. Mix well before applying.

Drip irrigation system: use 16–24 fl oz per acre with every feeding cycle.





Made in USA

# LIQUID BROWN SUGAR WITH KELP, SEAWEED & Moly (cont.)

During seed and planting: use 16–20 fl oz per acre with 10–15 gallons of water.

## RECOMMENDATIONS

To ensure compatibility, a jar test or strip test should be conducted before adding to your tank mix. Use in accordance with recommendations of a qualified individual or institution, such as, but not limited to, a certified crop advisor, agronomist, university crop extension publication, or apply according to recommendations in your approved nutrient management plan.

### GUARANTEED ANALYSIS

|                 |      |
|-----------------|------|
| Molybdenum (Mo) | 2.5% |
|-----------------|------|

Derived from: Sodium Molybdate

### ALSO CONTAINS NON PLANT FOOD INGREDIENT(S)

|       |   |
|-------|---|
| 6.0%  | Humic Acid (Derived from Leonardite)                  |
| 2.0%  | Kelp & Seaweed Extract ( <i>Ascophyllum nodosum</i> ) |
| 48.0% | Molasses (Microbe Food)                               |

NOTICE: The application of fertilizer material containing molybdenum (Mo) may result in forage crops containing levels of molybdenum (Mo) which are toxic to ruminant animals.

Works on both Non-GMO and GMO plant and seed genetics.

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones. Contains less than 2% salt.

### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-salt/salt-free formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations. Traditional lab test methods do not represent the total/actual percentages value of components compared to equally listed salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on soil type, soil condition, soil testing, climate and seed type.

It is always recommended to perform a jar test to ensure compatibility.

### STORAGE AND HANDLING

**Note:** Follow label directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 95 °F, or below 40 °F.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.



Made in USA

## Liquid Brown Sugar with Kelp, Seaweed & Moly (cont.)

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.**

**STORE AWAY FROM FOOD AND DRINK.**

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### CAUTION

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.**

**KEEP OUT OF REACH OF CHILDREN.**

**KEEP FROM FREEZING.**





Made in USA

## LIQUID BROWN SUGAR WITH KELP, SEAWEED & Moly (cont.)



## INTELLI™ MANGANESE CHELATE

Manganese is one of the 16 essential elements mandatory for plant growth and reproduction. Manganese (Mn) is considered a micro-nutrient because plants required in small amounts irrespective to its relative abundance in soils or its importance as a plant nutrient. Relatively large quantities of  $MnSO_4$  can occur in soils, but only a small fraction is normally available at any one time. This product is designed for use on corn, soybeans, sorghum, cotton, sugar beets, wheat, and other field crops with a medium to high response to manganese.

### BENEFITS AND FUNCTION

Manganese is used in plants as a major contributor to various biological systems including photosynthesis, respiration, and nitrogen assimilation. Manganese is also involved in pollen germination, pollen tube growth, root cell elongation, and resistance to root pathogens. Micro-nutrient Manganese Sulfate is a first choice when applied as a foliar spray.

### Facts

Manganese (Mn) is an important plant micronutrient and is required by plants in the second greatest quantity compared to iron. Like any other element, it can have a limiting factor on plant growth if it is deficient or toxic in plant tissue. Like iron in many ways, manganese deficiency or toxicity is often mistaken for iron deficiency or toxicity.

### Function

Manganese is a major contributor to various plant biological systems including respiration, and nitrogen assimilation. Manganese also makes the process of photosynthesis possible by helping to form chlorophyll, that allows plants to capture sunlight more effectively and turn it in to energy. Manganese is also involved in pollen germination, pollen tube growth, root mass and root resilience, and increases tolerance to sodium.

### Deficiency

Manganese deficiency symptoms, which often look like those of iron deficiency, appear as interveinal chlorosis (yellow leaves with green veins) on young leaves, and sometimes tan, sunken spots appearing in chlorotic areas between the veins. Plant growth may also be reduced and stunted. Manganese deficiency can occur when the pH of the growing medium exceeds 6.5, because it is tied up and unavailable for uptake. Deficiency can also occur from low fertilizer application rates, use of general purpose fertilizers with high salt content (which typically have reduced micronutrient contents), excessive leaching, or applying too many iron chelate drenches.

### GUARANTEED ANALYSIS

|                                     |       |
|-------------------------------------|-------|
| Manganese (Mn)                      | 5.00% |
| 5.0% - Water Soluble Manganese (Mn) |       |

Derived from Manganese Sulfate Chelating Agent: Ethylenediaminetetraacetic Acid

### MIXING INSTRUCTIONS

#### MIXING WITH UAN AND OTHER LIQUID FERTILIZER SOLUTIONS

Intelli™ Manganese Chelate may be mixed in any ratio with 28% or 32% low salt urea ammonium nitrate (UAN) solutions.

#### MIXING WITH NPK SOLUTIONS

Generally, no more than 1–2 quarts of liquid Intelli™ Manganese Chelate should be added to 10 gallons of clear liquid-mixed fertilizers such as 9-18-9, 14-36-12, or 8-16-8. Intelli™ Manganese Chelate can be applied by itself or diluted with water. It is not recommended to be applied directly to or with seed. Always check compatibility with other products prior to use. Do not mix with liquid fertilizers high in orthophosphate or high salt base liquid fertilizers.

# INTELLI™ MANGANESE CHELATE (cont.)

## APPLICATION GUIDE CHART

| TEST RANGE           | PLANT CONDITION   | STARTER       | BROADCAST       |
|----------------------|-------------------|---------------|-----------------|
| <b>Extremely Low</b> | Severe Deficiency | 2 to 3 Quarts | 3 to 4 Quarts   |
| <b>Low</b>           | Mild Deficiency   | 1 to 2 Quarts | 2 to 3 Quarts   |
| <b>Medium</b>        | Slight Deficiency | 1 Quart       | 1 to 1 ½ Quarts |
| <b>High</b>          | Maintenance Only  | 1 Pint        | 1 Pint          |

### USE RATE

Mix Intelli™ Manganese Chelate thoroughly with 10–15 gallons of water per acre.

### IMPORTANT NOTE

Always check compatibility with other products prior to use. Since weather, crops, soil, and other conditions may vary, EST, Inc. and/or the Seller/Distributor make no warranty of any kind, expressed, or implied concerning the use of this product. The user assumes all risk of use of this product storage and handling whether in accordance with directions or suggestions as described.

### EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Can be applied through irrigation systems or fertigated through sprinkler systems.
- Can be mixed with various liquid fertilizers formulations.
- Easy to handle and tank mix.

### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-sodium (salt) formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on type of soil, soil condition, soil testing, climate and seed type.

It is always recommended to perform a jar test to ensure compatibility.

### STORAGE AND HANDLING

**Note:** Follow directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 120 °F, or below 40 °F.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.  
STORE AWAY FROM FOOD AND DRINK.**

## INTELLI™ MANGANESE CHELATE (cont.)

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### CAUTION

**FOR INDUSTRIAL OR INSTITUTIONAL USE ONLY.  
KEEP OUT OF REACH OF CHILDREN.  
KEEP FROM FREEZING.**





Made in USA

## INTELLI™ MANGANESE CHELATE (cont.)

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## ELEMENTAL SULFUR

Elemental Sulfur 9-0-0-20 is designed for all types of row crops, vegetables, fruit trees, sod, turf, lawn, hay, cotton, peanuts, potatoes, beets, hemp, various other crops, cereals and forage grasses where yellowing of newly-emerging leaves is an indicator of sulfur deficiency.

### SULFUR DEFICIENCY SYMPTOMS

Sulfur is essential for many growth functions in plants including nitrogen metabolism, enzyme activity, and protein and oil synthesis. Generally, sulfur-deficient plants have short and/or spindly stems and yellowing of the young (top) leaves. With nitrogen deficiency, yellowing affects the older, lower leaves first. Sulfur-deficient canola can also have purpling and upward cupping of young leaves, delayed and prolonged flowering, pale-colored flowers and fewer, smaller pods. Sulfur-deficient alfalfa, pea, and other legumes may have reduced nitrogen fixation.

### BENEFITS OF SULFUR

- Optimizes conditions for resistance of and tolerance to abiotic stress.
- Helps condition the soil for improved plant performance and vigor.
- Changes cation exchange capacity (CEC).
- Helps prevent and correct sulfur nutrient deficiency.
- Increases nitrogen metabolism.
- Supports functions of beneficial microbes in the soil.
- Helps utilize soil micronutrients more efficiently and increase uptake.
- Helps condition the soil for improved plant performance and vigor.

### EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Can be applied through irrigation systems or fertigated through sprinkler systems.
- pH neutral and can be mixed with various liquid fertilizers formulations.
- Easy to handle and tank mix for foliar application.

### DILUTION RATE

Dilution rates may vary depending on the crops or the plants. Soil tests may be necessary to determine true sulfur deficiency to select correct amount of application.

#### GENERAL GUIDELINE FOR DILUTION\*

**Foliar Application:** Mix 1–2 quarts of Elemental Sulfur 9-0-0-20, with 10–15 gal of water to cover one acre

**In-Furrow Application:** Mix 2–3 quarts of Elemental Sulfur 9-0-0-20, with 10–15 gal of water to cover one acre.

**Root Feeding Trees and Shrubs:** Mix 4 oz per inch of trunk diameter with 5–10 gal of water and pour or inject into the drip line. Use 1 gal per 64 gal of water for foliar applications.

\*For a customized application rate, please contact your EST representative.

### GUARANTEED ANALYSIS



## ELEMENTAL SULFUR (cont.)

|                             |        |
|-----------------------------|--------|
| Total Nitrogen (N)          | 9.00%  |
| 3.50% - Ammoniacal Nitrogen |        |
| 3.00% - Nitrate Nitrogen    |        |
| 2.50% - Urea Nitrogen       |        |
| Sulfur (S)                  | 20.00% |

**Derived from:** ammonia nitrate, urea, and methyl sulphonyl sulfate.  
Does not contain any metal or metallic oxides.

**Note:** This product does not contain any type of Plant Growth regulators, or Vitamin hormones.

### WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-sodium (salt) formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations. Traditional lab test methods do not represent the total/actual percentages value of components compared to equally listed salt-based formulations.

For more specific application rate per acre, please contact your distributor for details. Application rates may vary based on type of soil, soil condition, soil testing, climate and seed type.

It is always recommended to perform a jar test to ensure compatibility.

### STORAGE AND HANDLING

**Note:** Follow directions carefully. Always consult your dealer or supplier for timing, methods and to customize application, depending on contaminations.

Wear rubber gloves and eye protection. Avoid contact with open wounds or sores, harmful if swallowed, avoid any direct contact with the skin and eyes; may cause irritation.

Keep container closed when not in use. Store out of direct sunlight. Keep from Freezing. Avoid temperatures above 120 °F, or below 40 °F.

### CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the seed/crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

### FIRST AID

**KEEP OUT OF REACH OF CHILDREN AND AWAY FROM PETS.**

**STORE AWAY FROM FOOD AND DRINK.**

**EYES:** Immediately flush eyes with plenty of water and continue for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation persists.

**SKIN:** Flush affected areas with plenty of water. Get medical attention if irritation persists.

**INGESTION:** If this product is swallowed, do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration (breathing) of liquid into lungs. Get medical attention immediately.

### CAUTION

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## MICRONUTRIENT – COPPER CHELATE 3% W/ HUMIC

Micro-Mix – Chelated Copper w/ Humic enhances the role copper plays in photosynthesis and respiration. Copper deficiency can result in delayed flowering, maturity, and sterility. Some plants that need more copper than other plants, including beets, onions, lettuce, spinach, and tomatoes. As organic matter increases, available copper decreases. In soils with a pH above 7.5, plant analysis is used to check for copper deficiency. Chelated copper is usually added when another fertilizer is being applied. EST Inc. recommends using only one-sixth the amount of recommended copper when Copper Chelate 3% w/ Humic is used. If a copper deficiency is confirmed, applications are good for two to three years, depending on the soil and crop. Apply once per year to counteract the copper deficiency. Soil should be tested prior to applying copper.

Liquid Humic increases the absorption rate of copper. It also makes the chelated copper readily available for foliar and root absorption. This product can be mixed with other fertilizers before application.

### COMPATIBILITY

Chelated Copper is compatible with most NPK liquid fertilizer blends like, LSN 32-0-0, LSN 28-0-0, Liquid Potash Concentrate 0-0-15, and ammonium phosphate base starter blends. Always pre-mix with water before applying.

### GUARANTEED ANALYSIS

|             |      |
|-------------|------|
| Copper (Cu) | 3.0% |
|-------------|------|

*Plant Nutrients derived from: Copper Sulfate Chelating Agent: Ethylenediaminetetraacetic Acid*

### ALSO CONTAINS NONPLANT FOOD INGREDIENT(S)

|       |                             |
|-------|-----------------------------|
| 2.0%  | Humic Acids from Leonardite |
| 98.0% | Inert Ingredients           |

### USE RATE

**Note: Soil test is required** prior to application of this product. Use rate needs to be determined based on soil test and type of crop that is going to be planted. Mix with 8–10 gallons of water per acre.

| COPPER DEFICIENCY RANGE | APPLICATION/ACRE/YEAR |
|-------------------------|-----------------------|
| High Deficiency         | 1–3 Quart             |
| Mid Deficiency          | 1–2 Quart             |
| Low Deficiency          | 28 fl oz – 1 Quart    |

# MICRO-MIX – COPPER CHELATE 3% W/ HUMIC

## EASE OF USE

- Fast-acting and maximum absorbency.
- 100% water soluble and bio-available.
- Can be applied through irrigation systems or fertigated through sprinkler systems.
- Can be mixed with various liquid fertilizers formulations and herbicides.
- Easy to handle and tank mix.
- Economical, with low application rates.

## WEIGHT PERCENTAGE – NANO-ENHANCED

Due to the nature of our Nano-enhanced and low-salt/salt-free formulations this product may be more effective than other similar products with equally listed components, with their traditional salt-based formulations. Traditional lab test methods do not represent the total/actual percentages value of components compared to equally listed salt-based formulations.

Consult your dealer or agronomist for specific application rates per acre, application rates may vary based on soil test.

It is always recommended to perform a jar test to ensure compatibility.

## CONDITIONS OF SALE

Always follow all label directions. The manufacturer cannot control weather conditions, methods of application nor the condition of the crop at time of application. Buyer assumes all risks of use, storage or handling of this product when used in a manner inconsistent with label directions.

## CAUTION

Keep product away from eyes. Do not swallow or ingest this product. It is recommended that safety glasses or other protective eyewear be worn to prevent eye contact. The use of rubber, neoprene, nitrile or other protective gloves is recommended where prolonged or extensive use is expected. Remove contaminated clothing and **DO NOT** wear again until thoroughly cleaned. Wash hands thoroughly with soap and water after handling.

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