

FOR FOLIAR  
APPLICATION

# FOLIAR ZINC 1000

## GENERAL INFORMATION:

**FOLIAR ZINC** is a water soluble chelated concentrate that may be applied by air or ground equipment.

**FOLIAR ZINC** is compatible with most pesticides and fungicides. Check compatibility before using.

**FOLIAR ZINC** should be applied during the early stages of plant growth when most deficiency problems usually occur.

**FOLIAR ZINC** contains buffer agents that lower the pH of alkaline water and helps prevent hydrolysis of pesticides and fungicides.

## STORAGE INSTRUCTIONS

**FOLIAR ZINC** is a specially formulated acid based chelate. It is corrosive to brass and mild steel. Bulk **FOLIAR ZINC** must be stored in stainless steel, fiberglass, or polyethylene storage tanks. Fittings and valves must be PVC, plastic, or stainless only! Pail storage should be limited to a maximum of 2 pallets high with each pallet being 2 pails high.

## ADDITION TO LIQUID FERTILIZER:

**FOLIAR ZINC** can be added directly to nitrogen fertilizers with minimal agitation. Do not add to aqua ammonia, phosphate solutions or solutions containing excessive amounts of free ammonia.

An agricultural nutrient aid for correcting Zinc deficiency in crops.

## GUARANTEED ANALYSIS

0 - 10 - 0

Total Nitrogen (N) .....	0.00%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	10.00%
Soluble Potash (K <sub>2</sub> O).....	0.00%
Zinc (Zn) .....	10.00%
Sulfur (S) .....	5.00%

Derived from Zinc Sulfate, ethylene diamine tetraacetic acid (EDTA), super phosphoric and other sequestering acids.

## -CAUTION-

Corrosive Liquid, N.O.S. - Keep out of reach of children. Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. If exposure occurs, wash exposed area thoroughly with excessive water.



**THE J.C. SMITH CO.**  
SAN SABA, TEXAS 76877

• 2.5 gallon	27.5 lb	12.5 kg
• 5 gallon	55 lb	25 kg
• 270 gallon	2970 lb	1350 kg

## FOLIAR APPLICATION

**Pecan Trees and other Tree Crops:** After fruit set, apply 1-3 qts. per 100 gal. spray. May be repeated at 10-14 day intervals.

**Field Crops:** Apply 1-2 qts. per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-3 pts. per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-25 day intervals.

## CONDITIONS OF SALE

**NOTICE:** Seller warrants only that the material contained herein conforms to its chemical description and is reasonably fit for the purposes stated on this label when used in accordance with the directions under normal conditions of use. Seller expressly disclaims this warranty and any warranty of **MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE**, express or implied, for any use of this product contrary to label instructions or under abnormal conditions or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use. Any damages arising from a breach of this warranty shall be limited to the purchase price. Seller shall have no responsibility for Buyer's incidental or consequential damages.

FOR SOIL  
APPLICATION  
ONLY

# FERTI-ZINC 1000

## GENERAL INFORMATION:

**FERTI-ZINC** is a readily available source of zinc for plants. It can be added to liquid fertilizers or can be used alone or in combination with a regular preplant liquid program. Rates of application will vary according to zinc deficiencies in each crop. One half to one gallon per acre will usually correct most trace element deficiencies.

**FERTI-ZINC 1000** is a specifically formulated zinc chelate for addition to polyphosphate fertilizers.

## STORAGE INSTRUCTIONS

**FERTI-ZINC** is an acid based chelate. It is corrosive to mild steel before it is incorporated into liquid fertilizer. Bulk Ferti-Zinc liquid chelate must be stored in stainless steel, fiberglass, or polyethylene storage tanks. Fittings and valves must be PVC plastic or stainless only! Pail storage should be limited to a maximum of two pallets high, with each pallet being two pails high.

An agricultural nutrient aid for correcting Zinc deficiency in crops.

## GUARANTEED ANALYSIS 0 - 0 - 0

**ZINC (ZN) 10.00%**

WT. PER GALLON: 11 lbs

Derived from Zinc Chloride, ethylene diamine tetraacetic acid (EDTA), and other sequestering agents.

### -CAUTION-

Corrosive Liquid, N.O.S. - Keep out of reach of children. Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. If exposure occurs, wash exposed area thoroughly with excessive water.



**THE J.C. SMITH CO.**  
SAN SABA, TEXAS 76877

- 2.5 gallon 27.5 lb 12.5 kg
- 5 gallon 55 lb 25 kg
- 270 gallon 2970 lb 1350 kg

## APPLICATION

Apply 2-4 quarts of Ferti-Zinc per acre alone or in combination with liquid fertilizer for pre-plant, starter, or side dress applications. Vary rate according to zinc deficiency and soil conditions.

## ORDER OF ADDITION TO LIQUID FERTILIZER

1. Add polyphosphate
2. Add Ferti-Zinc
3. Add Nitrogen and Potash

Do not add Ferti-Zinc to aqua ammonia or solutions containing excessive amounts of free ammonia.

## CONDITIONS OF SALE

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# ZN COMPLEX 10%

## GENERAL INFORMATION:

Zinc Complex 10% is a source of Zinc for plants. It can be applied with liquid fertilizers or can be used alone or in combination with a regular spray program for foliar application. Rates of application will vary according to Zinc deficiencies in each crop. Do not apply at rates higher than recommended levels.

Zinc Complex 10% is compatible with most herbicides, Insecticides, and other agricultural chemicals compatible with liquid fertilizer.

## FOLIAR APPLICATION:

**Field Crop:** Apply 1-2 quarts per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Tree Crops:** After fruit set, apply 1-3 quarts per 100 gal. Spray. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-4 quarts per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-day intervals.

An agricultural aid for correcting Zinc deficiency in crops.

## GUARANTEED ANALYSIS

Zinc (Zn) .....10.00%  
Sulphur (S) .....4.00%

Derived from Zinc Sulfate, Zinc Chloride, Ethylene diamine tetraacetic acid (EDTA), and other sequestering agents.

## -CAUTION-

Corrosive liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



THE J.C. SMITH CO.  
San Saba, Texas 76877

Net Weight  
2.5 gallon 26.25lb 11.93 kg  
5 gallon 52.5lb 23.86 kg  
275 gallon 2887lb 1312.5 kg

## SOIL APPLICATION:

Apply 1-8 quarts of Zinc Complex 10% per acre alone or in combination with liquid fertilizer for preplant, starter or side dress applications. Vary rate according to Zinc deficiency and soil.

## ORDER OF ADDITION TO LIQUID FERTILIZER

1. Add Polyphosphate
2. Add Zinc
3. Add Nitrogen and Potash
4. Do not add aqua ammonia or solutions containing excessive amounts of free ammonia.

## CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

FOR SOIL  
APPLICATION  
ONLY

# FERTI-MANGANESE 500

NET WEIGHT  
55 Pounds

## An agricultural nutrient aid for correcting MANGANESE deficiency in crops

### GENERAL INFORMATION:

Ferti-Manganese 500 is a source of Manganese for plants. It can be added to liquid fertilizers or can be used alone or in combination with a regular preplant liquid program.

Rates of application will vary according to Manganese deficiencies in each crop. Do not apply at rates higher than recommended levels.

Ferti-Manganese is specifically formulated for addition to polyphosphate fertilizers. One-half to one gallon per acre will usually correct most trace element deficiencies.

### - CAUTION -

Corrosive liquid - Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.

### GUARANTEED ANALYSIS

#### MANGANESE (Mn)

Expressed as elemental..... 5.00%

Expressed as (MnO) ..... 6.45%

Also Contains: Hydroxyethylene diaminetriacetate (HEDTA) and sequestering agents.



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### SOIL APPLICATION:

Apply 1-8 quarts of Ferti-Manganese 500 per acre alone or in combination with liquid fertilizer for preplant, starter, or side dress applications. Vary rate according to Manganese deficiency and soil condition.

### ORDER OF ADDITION TO LIQUID FERTILIZER

1. Add Polyphosphate
2. Add Manganese
3. Add Nitrogen and Potash

Do not add to aqua ammonia or solutions containing excessive amounts of free ammonia.

### CONDITION OF SALE

Seller warrants that the product conforms to its chemical description and is reasonable fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

# FOLIAR MANGANESE 500

## General Information:

Foliar Manganese 500 is a source of Manganese for plants. It can be applied alone or in combination with a regular spray program for foliar application. Rates of application will vary according to Manganese deficiencies in each crop. Do not apply at rates higher than recommended levels.

Foliar Manganese 500 is compatible with most herbicides, insecticides, and other agricultural chemicals.

## FOLIAR APPLICATION:

**Field Crops:** Apply 1-2 pints per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Tree Crops:** After fruit set, apply 1-3 quarts per 100 gal. spray. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-4 quarts per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-30 day intervals.

## GUARANTEED ANALYSIS

**MANGANESE (Mn).....5.00%**

Derived from Manganese Sulfate, Ethylene diamine tetracetic acid (EDTA) and other chelating agents.

## - CAUTION -

Corrosive liquid - Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



**J.C. SMITH CO.**  
SAN SABA, TEXAS 76877

• 2.5 gallon	25 lb	11.36 kg
• 5 gallon	50 lb	22.73 kg
• 270 gallon	2700 lb	1227.27 kg

## SOIL APPLICATION:

Apply 1-8 quarts of Foliar Manganese 500 per acre for preplant, starter or side dress applications. Vary rate according to Manganese deficiency and soil conditions.

## ADDITION TO LIQUID FERTILIZER:

Foliar Manganese 500 can be added directly to nitrogen fertilizers with minimal agitation. Do not add to aqua ammonia, phosphate solutions, or solutions containing excessive amounts of free ammonia.

## CONDITIONS OF SALE

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**An agricultural nutrient aid for correcting MANGANESE deficiency in crops.**

Net Weight  
50 lbs.

# CHEL-MAGNESIUM 400

Net Weight  
50 lbs.

## GENERAL INFORMATION:

Chel-Magnesium 400 is a source of Magnesium for plants. It can be applied with liquid fertilizers or can be used alone or in combination with a regular spray program for foliar application. Rates of application will vary according to Magnesium deficiencies in each crop. Do not apply at rates higher than recommended levels.

Chel-Magnesium 400 is compatible with most herbicides, insecticides, and other agricultural chemicals compatible with liquid fertilizer.

## FOLIAR APPLICATION:

**Field Crop:** Apply 1-2 quarts per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Tree Crops:** After fruit set, apply 1-3 quarts per 100 gal. spray. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-4 quarts per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-day intervals.

An agricultural aid for correcting MAGNESIUM deficiencies in crops.

## GUARANTEED ANALYSIS

### MAGNESIUM (Mg)

Expressed as elemental..... 4.00%

Expressed as (MgO).....6.64%

Also contains Ethylene diamine tetraacetic acid (EDTA) and other chelating agents.

## -CAUTION-

Corrosive liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



THE J.C. SMITH CO.  
San Saba, Texas 76877

## SOIL APPLICATION:

Apply 1-8 quarts of Chel-Magnesium 400 per acre alone or in combination with liquid fertilizer for pre-plant, starter or side dress applications. Vary rate according to Magnesium deficiency and soil.

## ORDER OF ADDITION TO LIQUID FERTILIZER

1. Add Polyphosphate
2. Add Magnesium
3. Add Nitrogen and Potash

Do not add to aqua ammonia or solutions containing excessive amounts of free ammonia.

## CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

# FOLIAR IRON 500

An agricultural nutrient aid for correcting IRON deficiency in crops.

## GENERAL INFORMATION:

FOLIAR IRON is a water soluble chelated concentrate that may be applied by air or ground equipment. FOLIAR IRON is compatible with most pesticides and fungicides. Check compatibility before using. FOLIAR IRON should be applied during the early stages of plant growth when most deficiency problems usually occur.

FOLIAR IRON contains buffer agents that lower the pH of alkaline water and helps prevent hydrolysis of pesticides and fungicides.

## STORAGE INSTRUCTIONS

FOLIAR IRON is a specially formulated acid based chelate. It is corrosive to brass and mild steel. Bulk FOLIAR IRON must be stored in stainless steel, fiberglass, or polyethylene storage tanks. Fittings and valves must be PVC plastic or stainless only! Pail storage should be limited to maximum of 2 pallets high with each pallet being 2 pails high.

## ADDITION TO LIQUID FERTILIZER

FOLIAR IRON can be added directly to nitrogen fertilizers with minimal agitation. Do not add to aqua ammonia, phosphate solutions or solutions containing excessive amounts of free ammonia.

## GUARANTEED ANALYSIS

0-0-0

Iron (Fe).....5.00%  
Sulfur (S) .....3.00%

Derived from Ferrous Sulfate, ethylene diamine tetraacetic acid (EDTA), and other sequestering aids.

## -CAUTION-

Corrosive liquid N.O.S. - Keep out of reach of children. Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. If exposure occurs, wash exposed area thoroughly with excessive water.



**THE J.C. SMITH CO.**

SAN SABA, TEXAS 76877

• 2.5 gallon	25 lb	11.36 kg
• 5 gallon	50 lb	22.72 kg
• 275 gallon	2750 lb	1250 kg

## FOLIAR APPLICATION:

**Cotton:** Make first application of 1 qt. per acre at 4 leaf stage, second when cotton begins to square. Repeat at 10-14 day intervals.

**Other Field Crops:** Make 3 applications of 1-2 qts. per acre in enough water to assure good coverage. Apply at or before bloom and repeat at 10-14 day intervals.

**Vegetables:** Use 1-2 quarts per acre depending on size of plants. First application should be made prior to flowering and/or fruiting. Continue throughout season at 7-10 day intervals.

**Turf Grass:** Apply 2-4 qts. per 5,000 sq. ft. with enough water to assure good coverage. Apply when grass begins to green and then at 20-30 day intervals.

**Tree Crops:** Apply 2-4 qts. per 100 gallons of water after fruit sets.

## CONDITIONS OF SALE

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# COPPER CHELATE 5%

## GENERAL INFORMATION

Copper Chelate is a readily available source of Copper for plants. It can be applied with liquid fertilizers or can be used alone or in combination with a regular spray program for foliar application. Rates of application vary according to Copper deficiencies in each crop. Do not apply at rates higher than recommended levels.

Copper Chelate is compatible with most herbicides, insecticides, and other agricultural chemicals compatible with liquid fertilizer.

## FOLIAR APPLICATION

**Field crops:** Apply 1/4 - 1/3 pints per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Tree Crops:** After fruit sets, apply 1 quart per 100 gal. spray. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-4 quarts per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-30 day intervals.

An agricultural nutrient aid for correcting  
**COPPER** deficiency in crops

## GUARANTEED ANALYSIS

**COPPER (Cu) ..... 5.00%**

Derived from: Copper sulfate, Copper nitrate, ethylene diaminetriacetic acid, (EDTA), and other sequestering agents.

## -CAUTION-

Corrosive liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



**THE J.C. SMITH CO.**  
SAN SABA, TEXAS 76877

	Net Weight	
2x2 1/2	25 lb	11.34 kg
5 gallon	50 lb	22.68 kg
270 gallon	2700 lb	1224.70 kg

## SOIL APPLICATION

Apply 1-4 Quarts of Copper Chelate per acre alone or in combination with liquid fertilizer for preplant, starter, or side dress applications. Vary rate according to Copper deficiency and soil condition.

## ORDER OF ADDITION TO LIQUID FERTILIZER

1. Add Polyphosphate
  2. Add Copper
  3. Add Nitrogen and Potash
- Do not add to aqua ammonia or solutions containing excessive amounts of free ammonia.

## CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instruction or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.



# FOLIAR FEED II

## FOLIAR APPLICATION

**Cotton:** First application of 1-2 qt. per acre at 4 leaf stage, second when cotton begins to square. Repeat at 10-14 day intervals.

**Field Crops:** 3 applications of 1-2 qts. per acre in enough water to assure good coverage. Apply at or before bloom and repeat at 10-14 day intervals.

**Tree Crops:** After fruit set, apply 2-3 qts. per 100 gallons of water. May be repeated at 10-14 day intervals.

**Turf Grass, Hay Meadows, and Bermuda grass pastures:** Apply 2-4 qts. with enough water to assure good coverage. (Additional rates with increased volumes of water.) Apply when grass begins to green and then at 20-30 day intervals.

## STORAGE INSTRUCTIONS

**FOLIAR FEED II** is a specifically formulated acid based fertilizer. It is corrosive to brass and mild steel. Bulk FFII must be stored in stainless steel, fiberglass, or polyethylene storage tanks. Fittings and valves must be PVC plastic or stainless only! Pail storage should be limited to a maximum of 2 pallets high with each pallet being 2 pails high.

A FOLIAR Plant Food containing available Nitrogen, Phosphoric Acid, Potash, Boron, Chelated iron, Chelated Zinc, Chelated Manganese, and Chelated Copper

## GUARANTEED ANALYSIS

Total Nitrogen (N) .....	15.00%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	10.00%
Soluble Potash (K <sub>2</sub> O) .....	5.00%
Boron (B) .....	.02%
Chelated Copper (Cu) .....	.05%
Chelated Iron (Fe) .....	.10%
Chelated Manganese (Mn) .....	.05%
Chelated Zinc (Zn) .....	.05%

Nutrients derived from Urea, Orthophosphoric acid, muriate of potash, zinc sulfate, manganese sulfate, ferrous sulfate, boric acid, and copper sulfate. Also contains ethylene diamine tetraacetic acid (EDTA) and other chelating agents.

## -CAUTION-

Corrosive liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact flush with water for at least 15 minutes and get medical help.



## THE J.C. SMITH CO. SAN SABA, TEXAS 76877

• 2.5 gallon	25 lb	11.36 kg
• 5 gallon	50 lb	22.73 kg
• 275 gallon	2750 lb	1250 kg

## PREPLANT SOIL APPLICATION

**Broadcast:** Apply 5 gal. per acre in enough water for even distribution.

**Row Application:** Apply 3 gal. per acre in enough water for even distribution. Apply 2 inches to the side and 2 inches below seed row.

Plant deficiency problems usually occur during the early stages of growth. Foliar Feed II should be applied at or before this time for maximum efficiency. Foliar Feed II tends to stimulate root growth, and to assure essential nutrients at the critical growth stages of fruiting and flowering plants. Foliar Feed II is compatible with most fungicides and insecticides, and acts as a buffering agent to lower PH in the spray tank and to help control hydrolysis of insecticides and fungicides. Foliar Feed II goes with good management practices to give better yields and more dollars per acre return for your investment.

## CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instruction or, under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

FOR SOIL  
APPLICATION  
ONLY

# CROP MIX 1100

NET WEIGHT  
55 POUNDS

An agricultural nutrient aid for correcting trace  
deficiencies in crops

**GENERAL INFORMATION:**

Crop Mix 1100 is a readily available source of traces for plants. It can be added to liquid fertilizers or be used alone or in combination with regular preplant liquid program. Rates of application will vary according to deficiencies in each crop. Do not apply at rates higher than recommended levels.

Crop Mix 1100 is specifically formulated for addition to polyphosphate fertilizers. One-half to one gallon per acre will usually correct most trace element deficiencies.

**—CAUTION—**

Corrosive liquid - Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.

**WEIGHT PER GALLON: 11.00 Pounds**

**GUARANTEED ANALYSIS**

**ZINC (Zn) . . . . . 5.00%**  
**IRON (Fe) . . . . . 1.00%**  
**MANGANESE (Mn) . . . . . 1.00%**

Also Contains: Hydroxyethylene diamine-triacetate (HEDTA) and sequestering agents.

**SOIL APPLICATION:**

Apply 1-8 quarts of Crop Mix 1100 per acre alone or in combination with liquid fertilizer for preplant, start, or side dress applications. Vary rate according to metal deficiency and soil conditions.

**ADDITION TO LIQUID FERTILIZER:**

Crop Mix 1100 can be added directly to nitrogen or phosphate fertilizers with minimal adaption. Do not add to aqua ammonia or solutions containing excessive amounts of free ammonia.

**CONDITIONS OF SALE**

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.



**THE J.C. SMITH CO.**  
**San Saba, Texas 76877**

FOR SOIL  
APPLICATION ONLY

# CROP MIX 1050

Net Weight 55 lbs.

## GENERAL INFORMATION

Crop Mix 1050 is a readily available source of traces for plants. It can be applied with liquid fertilizers or can be used alone or in combination with a regular pre-plant liquid program. Rates of application will vary according to trace deficiencies in each crop. Do not apply at rates higher than recommended levels.

**CROP MIX 1050** is specifically formulated for addition to polyphosphate fertilizers. One half to one gallon per acre will usually correct most trace element deficiencies.

## SOIL APPLICATION:

Apply 1-8 quarts of CROP MIX 1050 per acre alone or in combination with liquid fertilizer for pre-plant, starter, or side dress applications. Vary rate according to deficiency and soil conditions.

An agricultural aid for correcting trace deficiencies in crops.

## GUARANTEED ANALYSIS

Zinc (Zn) .....	5.00%
Manganese (Mn).....	1.00%
Copper (Cu).....	0.50%
Sulphur (S) .....	4.00%

Nutrients derived from Zinc Sulfate, Manganese sulfate, and Copper Sulfate. Also contains Ethylene diamine tetraacetic acid (EDTA) and other chelating agents.

## -CAUTION-

Corrosive liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at



THE J.C. SMITH CO.  
San Saba, Texas 76877

## ORDER OF ADDITION TO LIQUID FERTILIZER

1. Add Polyphosphate
  2. Add Crop Mix 1050
  3. Add Nitrogen and Potash
- Do not add to aqua ammonia or solutions containing excessive amounts of free ammonia.

## CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

# FOLIAR CALCIUM 600

An agricultural nutrient aid for correcting CALCIUM deficiency in crops.

## GENERAL INFORMATION:

Foliar Calcium 600 is a source of Chelated Calcium for plants. It can be applied alone or in combination with a regular spray program for foliar application. Rates of application will vary according to Calcium deficiencies in each crop. Do not apply at rates higher than recommended levels.

Foliar Calcium 600 is compatible with most herbicides, insecticides, and other agricultural chemicals.

## FOLIAR APPLICATION:

**Field Crops:** Apply 1-2 pints per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Tree Crops:** After fruit set, apply 1-3 quarts per 100 gal. spray. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-4 quarts per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-30 day intervals.

WEIGHT PER GALLON: 10.00 pounds

## GUARANTEED ANALYSIS

Calcium (Ca)  
Expressed as elemental .....6.00%

Derived from Calcium Chloride, ethylene diamine tetraacetic acid (EDTA), and other sequestering agents.

## -CAUTION-

Corrosive liquid - Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



**THE J.C. SMITH CO.**  
SAN SABA, TEXAS 76877

- |              |         |            |
|--------------|---------|------------|
| • 2.5 gallon | 25 lb   | 11.36 kg   |
| • 5 gallon   | 50 lb   | 22.72 kg   |
| • 270 gallon | 2700 lb | 1227.27 kg |

## SOIL APPLICATION:

Apply 1-4 quarts of Foliar Calcium 600 per acre for preplant, starter, or side dress applications. Vary rate according to Calcium deficiency and soil conditions.

Liquid Calcium is not recommended as a substitute for gypsum (landsplaster) and is not recommended as the sole calcium source for peanuts grown in low calcium soils or with a pH of 5.5 or below.

## CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends for the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

Net Weight  
2x2 1/2 42.5lb 19.32 kg  
5 gallon 42.5lb 19.32 kg

# Liquid Humate

Net Weight  
55 gallon 467.5lb 212.5 kg  
270 gallon 2300lb 1045.5 kg

## DIRECTIONS FOR USE

### **SHAKE, STIR or AGITATE BEFORE USING**

**GENERAL** - Apply 1 to 3 quarts per acre. This may be broadcast or banded on soil and incorporate prior to planting.

**PREPLANT and SIDEDRESS** - Apply 1 to 3 quarts per acre in at least 25 gallons of liquid fertilizer. See compatibility mixing instructions below.

**DIRECT SEEDING** - Apply 1 to 2 quarts per acre banded on seed at planting.

**STARTER FERTILIZER** - Apply 1 to 2 quarts per acre with starter "pop up" fertilizer. See compatibility and mixing instructions below.

**WATER RUN** - apply 1 to 3 quarts per acre in irrigation water.

**DRIP IRRIGATION and MICRO SPRINKLERS** - Apply 1 to 3 quarts per acre. Dilute Liquid Humate in a ratio of 1 gallon to 3 gallons of water prior to injecting into irrigation system.

## For Soil and Foliar Applications

**NON-PLANT FOOD INGREDIENT**  
16.0% Humic Acid derived from leonardite

### GENERAL INFORMATION

Liquid Humate contains Humic Acid that is designed to be applied as a foliar, or as a soil product to increase availability of nutrients and improved soil structure.

Liquid Humate contains water soluble Humic Acid that is extracted, via alkaline hydrolysis, with potassium hydroxide, of leonardite ore. This high quality formulation may be applied alone or in combination with fertilizers and pesticides.

**-CAUTION-**  
**KEEP OUT OF REACH OF CHILDREN**  
**This product is intended for**  
**AGRICULTURAL USE ONLY**

For handling and first aid precautions please see Material Safety Data Sheet (MSDS).



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**TRANSPLANT WATER** - Apply 1/2 to 3 quarts per acre in transplant solution.

**FOLIAR APPLICATION** - Apply 1/2 to 1 quarts per acre in at least 10-15 gallons of water per acre. Repeat as needed.

### COMPATIBILITY and MIXING INSTRUCTIONS

Compatible with most pesticides and fertilizers. Mix Liquid Humate with neutral liquids keeping the solution pH between 6-8. Do not mix with acid solutions.

### CONDITIONS OF SALE

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**NET WEIGHT  
22.6 KG**

# NPZS

**NET WEIGHT  
50 POUNDS**

NPZS is a blended foliar fertilizer containing 15% available nitrogen from low biuret urea, 5% available phosphoric acid derived from ortho-phosphoric acid, and 5% Zinc derived from Sodium Zinc Nhydroxyethylene-diamine-triacetate. Balance inert ingredients.

**SUGGESTED USES:**

**ALFALFA** - 1-2 pts. per acre at bud stage. Repeat every 10-14 days.

**BEANS, PEAS** - 1-2 pts. per acre at bud stage or when the first bloom is seen. Repeat every 2-3 weeks.

**CABBAGE, CAULIFLOWER, BROCCOLI, OTHER COLE CROPS** - 1-2 pts. per acre right after transplant. Repeat every 10-14 days.

**CARROTS, BEETS, OTHER VEGETABLE ROOT CROPS** - 1-3 pts. per acre when plants are 3-4 weeks old. Repeat at 3-4 week intervals.

**LETTUCE** - 1-2 pts. per acre. First application at thinning period for lettuce, right after transplant for celery, early rosette stage for spinach. Repeat every 10-14 days.

**CITRUS, AVOCADOS** - 1pt-2qts. per 100 gallons or 2-4 pts. per acre. First application just before bloom with later application over new flush of growth.

**COTTON** - 1-2 pts. per acre just prior to main bloom. Repeat every 2-3 weeks.

**MELONS, CANTALoupES, CUCUMBERS, SQUASH** - 1-2 pts. per acre just prior to bloom. Repeat in 2-3 weeks.

**MILO** - 1qt. per acre when plants are 3-4" high. Direct spray in 15 gallons water.

## 15-5-0-5 Zn Soluble Nutrient Spray

**GUARANTEED ANALYSIS:**

<b>Total Nitrogen (N)</b> .....	<b>15.00%</b>
<b>Available Phosphoric Acid (P<sub>2</sub>O<sub>5</sub>)</b> .....	<b>5.00%</b>
<b>Soluble Potash (K<sub>2</sub>O)</b> .....	<b>0.00%</b>
<b>Zinc (Zn)</b> .....	<b>5.00%</b>
<b>Sulphur (S)</b> .....	<b>2.5%</b>



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**ONIONS, GARLIC** - 1-2 pts. per acre about 3 weeks before bulb formation. Repeat at time of bulb formation. Again 2-3 weeks later.

**PECANS** - 1 1/2-2 1/2 qts per 100 gal. water. Spray to drip.

**PEANUTS** - 1 1/2-3 pts. per acre-2-4 applications from first bloom and repeat every 10-14 days.

**POTATOES** - 2 pts. per acre when plants are 4-5 inches high. Repeat in 3-4 weeks.

**SUNFLOWER** - 1-3 pts. per acre at bud stage. Repeat at full bloom or just after.

**STRAWBERRIES** - 1-2 pts. per acre just prior to bloom. Repeat every 10-14 days throughout fruiting period.

**SUGAR CANE** - 1-2 qts. per acre on early growth in 15 gallons water.

**SWEET CORN, FIELD CORN** - 2 pts. per acre at first sign of tassels. Repeat in 2-3 weeks.

**TOBACCO** - 1 pt. per acre 1-3 weeks after transplant. Repeat in 3-4 weeks.

**TOMATOES, PEPPERS, EGGPLANT, OKRA** - 1-2 pts. per acre at first bloom. Repeat at 10-15 day intervals during fruiting period.

**CONDITIONS OF SALE**

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# MELT DOWN

- For use with Glyphosates and other non-selective weed and grass killers.
- For use with 2-4-D, defoliants and desiccants.

**Melt Down** is formulated to accelerate the uptake of herbicides such as Glyphosate, MSMA, DSMS and other herbicides which recommend an ammonium sulfate activator.

**Directions:**

Fill mixing tank full of water. Add herbicide, defoliant or desiccant along with 1-3 quarts of Melt Down per 100 gallons of spray mix.

**Active Ingredients:**

Blend of Nonylphenol Polyethylene Glycol Ether, Stabilized Ammoniated Carbonates and Hydrol  
Phosphatic Stabilizers ..... 63%  
Formulation Aid ..... 37%

**- Caution -**

Corrosive liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.

**- Caution -**

Seller makes no warranty, expressed or implied, regarding this product, except the composition as set forth herein. Buyer and user assumes all risk of possession, handling or use whether or not in accordance with any directions contained herein.



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# SS SURFACTANT

## GENERAL INFORMATION:

**SS SURFACTANT** is a combined Non-ionic spraying aid for increasing the efficiency of various agricultural chemicals. It should be used where quick wetting and uniform coverage of an agricultural chemical is required.

### -CAUTION-

Causes eye irritation. May be harmful if swallowed. In case of contact flush with water for at least 15 minutes and get medical help.

## A Non-ionic Agricultural Spreader-Sticker

**Especially formulated as a spray adjuvant for use with herbicides, defoliants, insecticides, livestock sprays, desiccants, and other foliar nutrients.**



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## DIRECTIONS:

As a herbicide surfactant, use 1 to 3 pints to 100 gal. water added as the last ingredient to the spray mixture. With defoliants use 1 gallon per 100 gal. total mixture.

As a spreader - sticker for insecticides, use 2 to 8 ounces per 100 gallons water.

Livestock spray - add 4 to 8 oz. per 100 gallons total mixture.

### CONDITIONS OF SALE

**NOTICE:** Seller makes no warranty, expressed or implied, regarding this product, except the composition as set forth in the ingredient statement herein. Buyer and user assumes all risk of possession, handling, or use whether or not in accordance with any directions contained herein.



# NUTRA-BUFFE 1200

A Nonorganic Agricultural Buffering Agent and Nutrient Aid Formulated as a spray additive for use with insecticides, fungicides, and foliar nutrients.

## Directions:\*

As a buffering aid use at the rate of 1 pint per 100 gal. of spray in high or low volume sprayers.

As a nutrient aid use at the rate of 1 pint to 2 pints per 100 gal. of spray in both high and low volume sprayers.

\*Do Not Exceed Maximum Rate of 2 pints per 100 gal. water in any type of sprayer.

## -CAUTION-

Causes Eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



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*Nutra-Buffer* 1200 is a non-organic agricultural spray aid designed to lower the pH of water in the spray tank.

*Nutra-Buffer* helps keep insecticides from breaking down, resulting in better and longer insect control.

FOR FOLIAR  
APPLICATION

# PHOS-Fe-Zn XTR

NET WEIGHT  
50 Pounds

(0-7-0)

(A Foliar Plant Food, containing available PHOSPHORIC ACID, BORON, chelated IRON, chelated ZINC, chelated MANGANESE and chelated COPPER)

#### GENERAL INFORMATION:

PHOS-FE-ZN is a source of Trace Elements for plants. It can be applied alone or in combination with a regular spray program for foliar application. Rates of application will vary according to deficiencies in each crop. Do not apply at rates higher than 1 quart per 5 gallons of water.

PHOS-FE-ZN is compatible with most herbicides, insecticides, and other agricultural chemicals.

#### FOLIAR APPLICATION:

**Field Crops:** Apply 1-2 quarts per acre in enough water for good coverage. May be repeated at 10-14 day intervals.

**Pecan Trees and Other Tree Crops:** After fruit sets, apply 1-3 quarts per 100 gal. spray. May be repeated at 10-14 day intervals.

**Turf Grass:** Apply 1-4 quarts per 5,000 square feet with enough water to assure good coverage. May be repeated at 20-30 day intervals.

#### GUARANTEED ANALYSIS

TOTAL NITROGEN (N) .....	0.00%
AVAILABLE PHOSPHORIC ACID (P <sub>2</sub> O <sub>5</sub> ) .....	7.00%
SOLUBLE POTASH (K <sub>2</sub> O) .....	0.00%
BORON (B) .....	0.05%
COPPER (Cu) .....	0.05%
IRON (Fe) .....	1.50%
MANGANESE (Mn) .....	1.50%
ZINC (Zn) .....	3.00%
SULFUR (S) .....	3.00%

#### BUFFERING AID:

PHOS-FE-ZN contains a buffering agent that lowers the pH of alkaline water and helps prevent hydrolysis in the spray tank.

As a buffering aid use at the rate of 1 quart per 100 gal. of spray in high or low volume sprayers.

#### ADDITION TO LIQUID FERTILIZER:

PHOS-FE-ZN can be added directly to nitrogen fertilizers with minimal adjustment. Do not add to aqua ammonia, phosphate solutions, or solutions containing excessive amounts of free ammonia.

#### CONDITIONS OF SALE

Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability of fitness for a particular purpose expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions, or under conditions not reasonably foreseeable to the seller and buyer assumes the risk of any such use.

#### CAUTION

Corrosive Liquid - Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



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# IRON-MAN XTR

## FOLIAR APPLICATION

**Cotton:** 1st application of 1-4 pints per acre at 4 leaf stage, 2nd when cotton begins to square and repeat at 10-14 day intervals

**Field Crops:** 3 applications of 1-4 pints per acre in enough water to assure good coverage. Apply at or before bloom and repeat at 10-14 day intervals.

**Tree Crops:** After fruit set, apply 4-8 pints per 100 gal. water. May be repeated at 10-14 day intervals.

**Grain:** Apply 2-4 pints per acre in 10 gallons of water to assure good coverage. 1st application at tillering. Second application 14 to 21 days after 1st application.

**Turf Grass, Hay Meadows, and Bermuda grass pastures:** Apply 2-4 pints per acre with enough water to assure good coverage. (Additional rates with increased volumes of water). Apply when grass begins to green and then at 20-30 day intervals.

A FOLIAR Plant Food, containing available Nitrogen, Chelated Iron, Chelated Manganese, and Chelated Zinc

## GUARANTEED ANALYSIS

Available Nitrogen (N) .....	6.00%
Chelated Iron (Fe) .....	6.00%
Chelated Manganese (Mn) .....	2.00%
Chelated Zinc (Zn) .....	1.00%

Nutrients derived from Ferric Chloride, Ferrous Sulfate, Manganese Sulfate, Zinc Sulfate, and Urea. Also contains Ethylene diamine tetraacetic acid (EDTA) and other chelating agents.

### -CAUTION-

Corrosive Liquid. Keep out of reach of children. Causes eye and skin irritation. May be harmful if swallowed. In case of contact, flush with water for at least 15 minutes and get medical help.



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• 2.5 gallon	27.5lb	12.48 kg
• 5 gallon	55lb	24.95 kg
• 270 gallon	2970lb	1347.17 kg

## PREPLANT SOIL APPLICATION

**Broadcast:** Apply 2-4 qts. per acre in enough water for even distribution.

**Row Application:** Apply 1-3 qts. per acre in enough water for even distribution. Apply 2 inches to the side and 2 inches below seed row.

### CAUTION:

Contains Ferric Chloride. Product corrosive to stainless steel, mild steel, aluminum, brass, or any other type of metal. Suitable for use with fiberglass, polyethylene, polypropylene, or PVC. Applicator, booms, nozzles, valves, or any other part containing metal must be flushed with water after each use. Do not leave any of the product in rig overnight. Flush with water at end of the day.

### CONDITIONS OF SALE

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# Nickel Plus® 5-0-0

## Guaranteed Analysis

Total Nitrogen (N).....	5.0%
Sulfur (S).....	3.0%
Nickel (Ni).....	5.4%

**Derived from: Urea and Nickel lignosulfonate**

**KEEP OUT OF REACH OF CHILDREN  
CAUTION:**

Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. May cause irritation of nose, throat and/or skin. Wear goggles and gloves when handling. In case of contact, immediately flush skin or eyes with water for several minutes.

**Net Contents 2.5 Gallons (9.46 L) Weight: 10.5 Pounds/Gallon  
1.26 kg/l**

### General Information

Nickel Plus is for use as a foliar spray on pecans and other crops and ornamentals. It is readily available and rapidly absorbed by the foliage. Nickel Plus can be tank mixed with other nutrient and pest control products. Nickel Plus is not recommended for soil application except as a drench for container-grown pecans and river birch trees in nurseries.

Nickel Plus will disperse in water with little agitation. Many pesticides can be added and applied while spraying Nickel Plus. Follow this mixing sequence:

1. Water
2. Pesticide
3. Nickel Plus

### Storage Instructions

Store in cool, dry place. May be stored in unheated facility. Nickel Plus has low corrosiveness. Spills from broken containers can be cleaned up by absorbing on clay or other suitable absorbent.

**Warranty Statement:** NIPAN LLC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated on the label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Neither this warranty nor any other warranty of merchantability or fitness of a particular product expressed or implied, extends to the use of this product contrary to label instructions or under abnormal conditions not reasonably foreseeable to the seller, and the buyer assumes the risk of any such use.

### Nursery Uses

River Birch and Pecans

#### Foliar sprays:

Mix 1 - 2 pints per 100 gallons of water.

Thoroughly apply to foliage. Two applications per season are recommended for the correction and prevention of mouse ear.

**First application: 2 weeks after bud break.**

**Second application: 30 - 60 days after first application**

For severe mouse ear and to prevent mouse ear in the spring flush, apply 2 pints per 100 gallons of water in early October before leaf fall.

#### Drench application:

(Container-grown plants only)

Mix 1 gallon Nickel Plus in 100 gallons of water. Apply 1 pint of drench to trees in 7-gallon containers and 1 quart for trees in 15-gallon containers. Adjust drenching rate for other container sizes. Apply one time/year in the spring, summer or fall.

#### Pines - Forest nursery seedlings:

Pine seedlings for planting on poor coastal plain sandy soils may benefit from supplemental nickel nutrition. Nickel Plus improves root mass and increases resistance to rust.

Rate and timing: Apply 2 pints/100 gallons of water when seedlings are 6 - 8 inches tall and again 3 weeks later.

#### Other nursery crops:

Woody ornamentals grown in containers in soilless potting mixes where urea nitrogen is used may benefit from supplemental nickel nutrition.

Rate and timing: Apply as a foliar spray at 1 pint/100 gallons of water 2 - 3 weeks after the spring flush and repeat 1 month later. For drench applications, use 2 pints/100 gallons of water one time in late spring or when a nickel deficiency is suspected.

### Directions For Use

#### Pecans in Orchards:

For the correction and prevention of mouse ear on pecans and to reduce nut drop in June and improve disease resistance to scab. Two applications per season are recommended. The first spray for the correction and prevention of mouse ear and reduced nut drop; the second application improves disease resistance to scab.

**First application: Apply 1-1.5 pints per acre at Parachute Stage.**

**Second application: Mid-July. Apply 1.5-2 pints per acre.**

For severe mouse ear and newly transplanted pecan trees, apply 2 pints per acre in early October before leaf fall and in the spring at the parachute stage.

#### Other crops:

Nickel Plus can be used in a balanced fertility program where supplemental nickel nutrition may improve growth, quality, disease resistance and yield. Improved nickel nutrition has been shown to increase disease resistance to rust.

The addition of a non-ionic surfactant at the labeled rate is recommended to improve spray coverage.

#### Soybeans:

To increase root mass, nodulation and disease resistance to rust. Improved nickel nutrition of soybeans grown for seed can improve seed germination of saved seed.

Rate and timing: Ground application: Apply 12-16 oz in 15-20 gallons water per acre when soybeans are in R1 stage and again 14 to 21 days later.

#### Cotton:

Rate and timing: Apply 8 oz/acre at pin head square or in combination with the first and second application of a growth regulator used to control excessive vegetative growth.

#### Peanuts:

To increase root mass, nodulation and disease resistance to rust. Improved nickel nutrition of peanuts grown for seed can improve seed germination of saved seed.

Rate and timing: Ground application: Apply 8 oz/acre 50 days after planting. Repeat 14 to 21 days later.

#### Daylilies:

Nickel nutrition will improve plant resistance to rust. Apply 3 pints/100 gallons of water (1 Tablespoon/gallon) at weekly intervals combined with a fungicide for 3 weeks starting in early spring when plants begin active growth. After the initial 3 sprays, apply every 14 - 21 days until the plants start blooming. Retreat in the fall when weather conditions favor rust development.

Information about the components of this product may be obtained by writing to the manufacturer.

Manufactured in the USA by:

NIPAN LLC, P.O. Box 5611, 2867 Carroll Ulmer Rd.,

Valdosta, GA 31603-5611.

www.nickeplus.biz

Nickel Plus® is a registered trademark of NIPAN LLC.

Patent Pending



# Nickel Plus® 5-0-0

## Guaranteed Analysis

Total Nitrogen (N).....	5.0%
Sulfur (S).....	3.0%
Nickel (Ni).....	5.4%

**Derived from:** Urea and Nickel lignosulfonate

**KEEP OUT OF REACH OF CHILDREN  
CAUTION:**

Harmful if swallowed. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist. May cause irritation of nose, throat and/or skin. Wear goggles and gloves when handling. In case of contact, immediately flush skin or eyes with water for several minutes.

**Net Contents** 2.5 Gallons (9.46 L)    **Weight:** 10.5 Pounds/Gallon  
1.26 kg/l

### General Information

Nickel Plus is for use as a foliar spray on pecans and other crops and ornamentals. It is readily available and rapidly absorbed by the foliage. Nickel Plus can be tank mixed with other nutrient and pest control products. Nickel Plus is not recommended for soil application except as a drench for container-grown pecans and river birch trees in nurseries.

Nickel Plus will disperse in water with little agitation. Many pesticides can be added and applied while spraying Nickel Plus. Follow this mixing sequence:

1. Water
2. Pesticide
3. Nickel Plus

### Storage Instructions

Store in cool, dry place. May be stored in unheated facility. Nickel Plus has low corrosiveness. Spills from broken containers can be cleaned up by absorbing on clay or other suitable absorbent.

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#### Foliar sprays:

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Thoroughly apply to foliage. Two applications per season are recommended for the correction and prevention of mouse ear.

**First application:** 2 weeks after bud break.

**Second application:** 30 - 60 days after first application

For severe mouse ear and to prevent mouse ear in the spring flush, apply 2 pints per 100 gallons of water in early October before leaf fall.

#### Drench application:

(Container-grown plants only)

Mix 1 gallon Nickel Plus in 100 gallons of water. Apply 1 pint of drench to trees in 7-gallon containers and 1 quart for trees in 15-gallon containers. Adjust drenching rate for other container sizes. Apply one time/year in the spring, summer or fall.

### Pines - Forest nursery seedlings:

Pine seedlings for planting on poor coastal plain sandy soils may benefit from supplemental nickel nutrition. Nickel Plus improves root mass and increases resistance to rust.

**Rate and timing:** Apply 2 pints/100 gallons of water when seedlings are 6 - 8 inches tall and again 3 weeks later.

### Other nursery crops:

Woody ornamentals grown in containers in soilless potting mixes where urea nitrogen is used may benefit from supplemental nickel nutrition.

**Rate and timing:** Apply as a foliar spray at 1 pint/100 gallons of water 2 - 3 weeks after the spring flush and repeat 1 month later. For drench applications, use 2 pints/100 gallons of water one time in late spring or when a nickel deficiency is suspected.

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#### Other crops:

Nickel Plus can be used in a balanced fertility program where supplemental nickel nutrition may improve growth, quality, disease resistance and yield. Improved nickel nutrition has been shown to increase disease resistance to rust.

The addition of a non-ionic surfactant at the labeled rate is recommended to improve spray coverage.

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To increase root mass, nodulation and disease resistance to rust. Improved nickel nutrition of soybeans grown for seed can improve seed germination of saved seed.

**Rate and timing:** Ground application: Apply 12-16 oz in 15-20 gallons water per acre when soybeans are in R1 stage and again 14 to 21 days later.

#### Cotton:

**Rate and timing:** Apply 8 oz/acre at pin head square or in combination with the first and second application of a growth regulator used to control excessive vegetative growth.

#### Peanuts:

To increase root mass, nodulation and disease resistance to rust. Improved nickel nutrition of peanuts grown for seed can improve seed germination of saved seed.

**Rate and timing:** Ground application: Apply 8 oz/acre 50 days after planting. Repeat 14 to 21 days later.

#### Daylilies:

Nickel nutrition will improve plant resistance to rust. Apply 3 pints/100 gallons of water (1 Tablespoon/gallon) at weekly intervals combined with a fungicide for 3 weeks starting in early spring when plants begin active growth. After the initial 3 sprays, apply every 14 - 21 days until the plants start blooming. Retreat in the fall when weather conditions favor rust development.

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