

**SOUTHERN
AG**

COMMERCIAL PRODUCT GUIDE

HERBICIDE

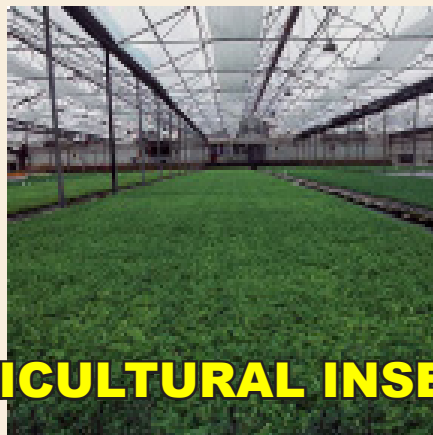
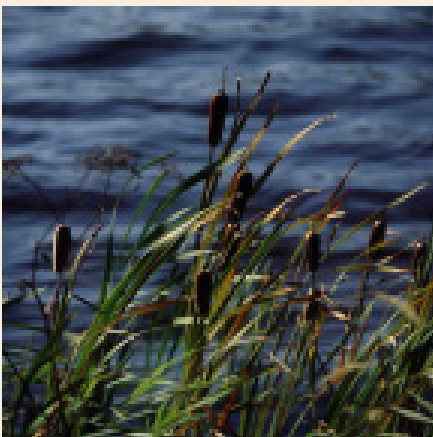
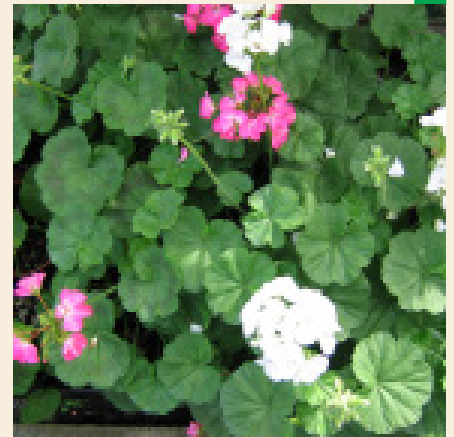
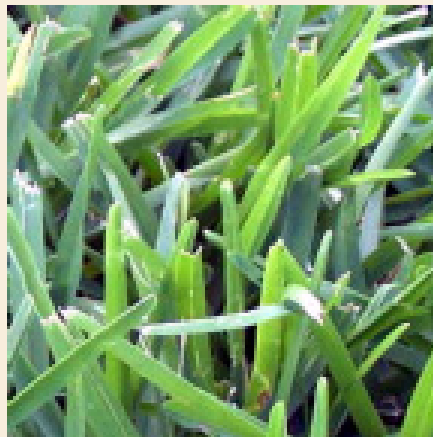
INSECTICIDES

DISINFECTANT

ADJUVANTS

SOLUBLE FERTILIZERS

NUTRITIONALS



SOUTHERN AGRICULTURAL INSECTICIDES, INC.

ADJUVANTS

BASAL OIL BLUE

CONTAINS: 100% blend of mineral oil, solvent, emulsifier and colorant.

USE: Use with herbicides only. Mix with Garlon or Remedy for basal bark treatment.

RATE: Mix with herbicide at 1% to 75%.

PACKED: 12 Gal. - #20957, 2 x 2.5 Gal. - #20958, 30 Gal. - 20959

BLUE COLORANT

CONTAINS: A concentrated non-staining dye.

USE ON: Turf, non-crop areas, ornamental plants and in fertilizer injectors.

FOR: Spray pattern indicator or fertilizer injector tracer.

RATE: Hand Sprayer 1/2 - 1 TBS. per gallon or 8 oz to 1 quart per acre.

See label for fertilizer injector rates.

APPLICATION: To be mixed with pesticides or fertilizers in sprayers or injectors tanks.

PACKED: 12 x Qt. - #20893, 4 x Gal. - #20894

DEFOAMER

CONTAINS: silicone based anti foaming agent

USE ON: Agricultural and Ornamental spray tanks for reducing amount of foam in spray and dip tanks.

RATE: 1/4 to 1 oz. per 100 gallons of spray.

APPLICATION:

Add to spray tank as needed to reduce foam.

PACKED: 12 x Qt. - #27003

HERBI - OIL 83-17

CONTAINS: Paraffin-based petroleum oils and a blend of oil soluble surfactants.

USE ON: Weeds with post emergent herbicides according to the label. Use with herbicides like Atrazine 4L Herbicide.

FOR: Increasing the effectiveness of herbicides.

RATE: 1% Emulsion or 1 1/4 oz. per gallon, 1 pt. in 12 1/2 gallons.

APPLICATION: Apply as a foliar spray with herbicides according to their label.

PACKED: 4 x 1 Gal. - #39734

METHYLATED SEED OIL

CONTAINS: 100% Methylated seed oil blend and other principal functioning agents

USE ON: Weeds with post emergent herbicides according to the label. Use with herbicides like Manor, Celcius, Quinclorac 75 DF and Revolver.

FOR: Increasing the effectiveness of herbicides.

RATE: 1 to 4 pints per acre.

APPLICATION: Apply as a foliar spray with herbicides according to their label.

PACKED: 12 x quart - #48053

SPREADER STICKER

CONTAINS: Modified phthalic glycerol alkyd resin, Octyl phenoxy polyethoxy, ethanol and Isopropanol

USE: With almost all insecticide and fungicide sprays on Fruit, Ornamentals and Vegetables.

FOR: Aids in spreading of spray material on waxy leaves. Helps retain spray material on the leaf. Increases effectiveness of insecticide and fungicide sprays.

RATE: Use 3 pints per 100 gallons or 1 TBS per gallon.

PACKED: 4 x 1 Gal. - #57854

SURFACTANT FOR HERBICIDES

CONTAINS: 80% non-ionic Surfactant.

USE: With almost all herbicide sprays.

FOR: Reducing the surface tension of water to insure more uniform coverage and penetration of weed killers.

RATE: 1 pint per 100 gallons or 1 tsp. per gallon

PACKED: 4 x Gal. - #66754

SOIL WETTING AGENT L

CONTAINS: 99.8% specially blended non-ionic surfactants

USE ON: Lawns, bedding plants and landscape.

FOR: Ensuring uniform distribution and availability of moisture in the root zone, Reducing evaporative water loss, and Aiding in water penetration.

RATE: 8-16 oz. per 1,000 sq. ft. See label for specific uses.

APPLICATION: Cover spray using at least 5 gl. of water per 1,000 sq. ft. Water after application.

PACKED: 4 x Gal. - #64594, 2 x 2.5 Gal. - #64598

SOIL WETTING AGENT SG

CONTAINS: 15% by weight specially blended non-ionic surfactants on a corn cob carrier.

USE ON: Lawns, and Landscape planting

FOR: Ensuring uniform distribution and availability of moisture in the root zone, Reducing evaporative water loss, and aiding in water penetration.

RATE: 3 1/2 lb. for 1,000 sq. ft.

APPLICATION: Broadcast with a spreader or spot treat.

PACKED: 40 lb. - #64609

SOIL ACIDIFIER (90% SULFUR)

CONTAINS: Elemental Sulfur, 10% Bentonite

FOR: CORRECTION OF HIGH pH (SWEET) SOIL

RATE: Use 1 lb. (2 cups) per 100 sq. ft.

PACKED: 50lb #64578

TANK CLEANER

CONTAINS: Potassium hydroxide and surfactant.

USE: Removes residue and deposits in spray tanks.

RATE: 1 ounce per gallon of water and agitate heavily.

PACKED: 12 x Qt. - #67553.

Latron B-1956 SPREADER STICKER

CONTAINS: Modified phthalic glycerol alkyd resin, Constituents ineffective as spray adjuvants, Butyl alcohol

FOR: To improve the wetting properties of insecticidal sprays on livestock

RATE: 1- 2 Oz Latron B-1956 per 100 gallons of spray..

PACKED: 4 x 1 Gal. - #43264, 55 gal #43266

DISINFECTANT

SA 20 DISINFECTANT

CONTAINS: 10% dimethyl benzylammonium chloride and 10% dimethyl ethylbenzyl ammonium chloride

USES: Disinfecting greenhouse areas, pots

and tools- 1 Tablespoon per gallon

Algae Control- 1 Tablespoon per gallon

Treat Seedlings, Orchids & Bulbs- 1 Teaspoon per gallon

APPLICATION: Mix with water. Used as a spray, drench, soak or a dip.

PACKED: 4 x 1 Gal. - #61554, 30 Gal. - 61559

HERBICIDE

CROSSBOW

Low Volatile Weed and Brush Herbicide

CONTAINS: 34.4% 2,4-D Ester, 16.5% Triclopyr BEE

USE ON: Rangeland, pastures, fence rows, ditchbanks, roadsides, other non-crop areas and industrial sites. Not for use on lawns.

CONTROLS: Many Broad-leaved Weeds and Brush.

RATE: 1 to 4 quarts per acre. .

APPLICATION: Apply as a coarse low pressure spray, preferably with fan type nozzle.

AVOID DRIFT TO SUSCEPTIBLE PLANTS.

PACKED: 12 x quart - #24863 x Gal. - #2486417384, 2 x 2.5 Gal. - #24868

INSECTICIDES

BIFENTHRIN NURSERY Granular Insecticide

For use as a quarantine treatment against imported fire ants and for nursery stocks.

CONTAINS: 0.2% Bifenthrin on sand base.

CONTROLS: Imported Fire Ants, Fungus Gnat Larvae, Mealybugs, Root Weevil larvae, White Grubs.

RATE: 200 to 600 lbs. per cubic yard of soil

APPLICATION: Incorporate into potting soil.

PACKED: 50 lb. - #20689

BIFENTHRIN PRO GC GRAN

CONTAINS: 0.2% Bifenthrin

USE ON: lawns in landscaped areas and perimeters around residential, institutional, public, commercial, and industrial buildings, parks, recreational areas, golf courses, sod farms, and athletic fields.

CONTROLS: ants (including imported fire ants), mole crickets, and other insect pests

RATE: up to 0.4 lb a.i./A to control each of the pests listed For residential lawn use, do not apply more than 0.2 lbs. a.i. per acre

APPLICATION: Spread evenly with spreader and water in.

PACKED: 50lbs - #20680

CHLOROPYRIFOS^R

1% MOLE CRICKET BAIT

FOR USE ONLY ON GOLF COURSES, SOD FARMS, ROAD MEDIANS AND COMMERCIAL ORNAMENTAL NUSERIES

CONTAINS: 1% Chlorpyrifos bait.

CONTROLS: Ants, Armyworms, Billbugs, Crickets, Earwigs, Grasshoppers, Mole Crickets and Sowbugs **RATE:** 2.5 lbs. per 1,000 sq. ft.

APPLICATION: Apply evenly over area with a spreader.

PACKED: 40 lb. - #23729

CHLORPYRIFOS^R

2.5% GRANULAR INSECTICIDE

CONTAINS: 2.5% Chlorpyrifos

USE ON: Sod Farms, Golf Course Turf, Outdoor Areas around Industrial Plant Sites and Ornamental Nurseries for Commercial Production

CONTROLS: Many insects such as Ants, Armyworms, Billbugs, Ticks, Crickets, Cutworms, Earwigs, Fleas, Sod Webworms, Grubs.

RATE: Turf, Nursery, Industrial Plant Sites- 1 lbs. per 1,000 sq. ft. Fire Ant Control - 2 TBS per mound. Imported Fire Ant Control in Ornamental Nurseries - 1 lb. per cubic yard of media or 250 lbs. per acre.

APPLICATION: Turf- spread evenly with spreader, water in thoroughly for most insects.

PACKED: 40 lb. - #23739

BIFENTHRIN LAWN 25#

CONTAINS: 0.2% Bifenthrin on sand carrier.

USE ON: Lawns, Perimeters, Boundary area, industrial sites, parks, ball fields, cemeteries, Fire Ant mounds, industrial sites and electrical sites.

CONTROLS: Ants, Armyworms, Billbugs, Centipedes, Chinch Bugs, Cockroaches, Cutworms, Fire Ants, Fleas, Leafhoppers, Millipedes, Mole Crickets, Ticks and webworm.

RATE: Lawns; 1.15 - 4.6 lbs. per 1,000 sq. ft.

APPLICATION: Spread evenly with spreader and water in.

PACKED: 25 lb. - #20677

MALATHION 50% E.C.

CONTAINS: 50% Malathion

(4.4 lbs. per gal).

USE ON: Citrus, Ornamentals, Many Garden Vegetables, Many Fruit Trees, Rice, Strawberries, Outdoor areas

CONTROLS: Aphids, Scale, Worms, Japanese Beetle, Horn Flies, Lice, Ticks, Fleas, Bed Bugs, Thrip, Leafminers, Spider Mites and Mosquitoes (use at 4 1/2 ozs per gallon in outdoor areas.

RATE: Foliar Sprays 1 - 4 Tsp. per gallon water. See label.

APPLICATION: Foliar spray only.

PACKED: 4 x Gal. - #45774, 2 x 2.5 Gal. - #45778

MOLE CRICKET BAIT with Carbaryl

CONTAINS: 5% Carbaryl Insecticide on an attractant feed base.

USE ON: Vegetables, Flowers, Fruits, Lawns, and Ornamentals.

CONTROLS: Cutworms, Armyworms, Crickets, Darkling Ground Beetles, Grasshoppers and Sowbugs.

RATE: 0.45 lb. to 0.9 lb. per 1,000 sq. ft.

APPLICATION: Apply evenly over area with fertilizer spreader.

PACKED: 40 lb. - #49519

PARAFINE HORTICULTURAL OIL

CONTAINS: 98% Oil (92% Unsulfonated Residue).

USE ON: Many Woody Ornamentals, Apples, Citrus, Avocados, and Mangos, Roses, and Ivy. Also may be used as a Plant Shine.

CONTROLS: Scales, White Fly Larvae, Mealy Bugs, and Spider Mites.

RATE: Non-dormant uses; 1 - 4 Tbs./gal

(2 - 5 Qt. /100 gl.).

Dormant uses; 4 - 8 Tbsp./gal

(6 - 12 Qt. / 100 gl.).

See label for specific uses.

APPLICATION: Mix with water and agitate frequently.

Apply as a thorough cover spray.

PACKED: 2 x 2.5 Gal. - #54288,

30 Gal. drum - #54289

PERMETROL LAWN INSECTICIDE

GRANULES

CONTAINS: 0.5% Permethrin granular.

USE ON: Lawns and around House Foundations

CONTROLS: Ants, Armyworms, Billbugs, Centipedes, Chinch Bugs, Cockroaches, Crickets, Cutworms, Fire Ants, Flea Beetles, Fleas, Grasshoppers, Lawn Moths, Leafhoppers, Scorpions, Silverfish, Spiders, Sod Webworms and Ticks

RATE: Lawns; 2 - 3 lbs. per 1,000 sq. ft.

Fire Ant Mounds; 1 cup per mound **APPLICATION:**

Spread evenly with spreader and water in.

PACKED: 40 lb. - #55520 on corn cob carrier or #55529 on dolomite carrier

SNAIL AND SLUG BAIT

CONTAINS: 3.25% Metaldehyde bait.

USE ON: Many Fruit Trees, Many Berry Crops, Many Vegetables, Ornamentals, Turfgrass lawns, Seed Grasses, Greenhouses

CONTROLS: Land Snails and Slugs.

RATE: 1 lb. per 1,100 to 1,500 sq. ft. or 30 - 40 lbs. per acre.

APPLICATION: Spread evenly over area.

PACKED: 40 lb. - #64459

THURICIDE[®] BT CATERPILLAR CONTROL

CONTAINS: Bacillus Thuringiensis liquid

USE ON: Many Vegetables, Citrus, Nuts, shrubs, trees, Tobacco, and flowering plants.

CONTROLS: Cabbage Looper, Orange Dog, Tobacco Hornworm, Imported Cabbageworm, Rindworm. Controls only Worms and Caterpillars.

RATE: 2 - 4 Tsp. per gallon.

APPLICATION: Mix with water, add spreader-sticker, use as a thorough cover spray.

PACKED: 4 x Gal. - #69204

PLANT GROWTH REGULATOR

FLOREL Plant Growth Regulator

CONTAINS: 3.9% Ethephon

1. Flower induction in many Bromeliads.
2. Hybrid seed production of squash,cucumber, and pumpkin by changing sex expression.
3. Defoliation roses, of apples (in Washington), and tall hedge for early transplant.
4. Increase lateral branching of certain ornamentals (Azalea, Garden Chrysanthemum, Fuchsia, Zonal Geranium, Ivy Geranium, Lantana, Verbena, Vinca major).

RATE: 16 oz per 10 gallons for most ornamental uses.

Check label for crop and use.

APPLICATION: apply as a foliar spray.

PACKED: 12 x Qt. - #36003, 4 x 1 Gal. - #36004

FERTILIZERS

12-0-0 6% FE, 2% MN

CONTAINS: 12% Nitrogen, 6% Iron, 2% Manganese

USE ON: Turfgrass and Ornamentals

RATE: Lawn and Fairways-1 to 3 Gal. per acre. Greens and Tees- 2 qts. to 2.5 gallons per acre. Bentgrass- 2 to 5 qts. per acre. Flowers- 1 to 2 pints per 100 gallons.

Woody Ornamentals- 1 to 2 qts. per 100 gallons. Trees- 1 to 4 qts. per 100 gallons.

APPLICATION: For ornamentals, spray to the point of run off. May damage open blooms at high rates. For Turfgrasses apply in irrigation or spray using 3- 5 gallons per 1000 sq. ft.

PACKED: 2 x 2.5 Gal. - #76988

CHELATED CITRUS NUTRITIONAL SPRAY

CONTAINS: Iron 1.2%, Zinc 1.7%, Manganese 1.2% and Magnesium 1.0%, and Sulfur 4.1%.

USE ON: Citrus, Avocados and Mangoes.

CONTROLS: Most common minor element deficiencies, and to aid in the reduction of pH of spray water, which increases the stability of many pesticides.

RATE: 1 - 2 Tbs./gal. of spray.
3 - 6 Qts. per 500 gallons).

APPLICATION: In December, January, February for normal preventative spray.

Apply as a thorough cover spray to run off.

PACKED: 2 x 2.5 Gal. - #23408

CHEL. G.P. FLOWER & GARDEN MINOR ELEMENT

CONTAINS: Iron 2.75%, Manganese 1.00%, Zinc 0.50%, Magnesium 0.50%, Copper 0.25% and Sulfur 3.8%.

USE ON: Flowers, Shrubs, Trees, Vegetables and Lawns.

TO CONTROL: Minor Element Deficiencies.

RATE: Foliar: 1 Tbs./gal. (3 pts. per 100 gallons)

Drench: 10 fl. oz./ 10-15 gallons of water per 1000 sq. ft. Lawns: 1 pt. per 1,000 sq. ft.

Vegetables: 1-2 quarts per acre.

Trees: 2-4 quarts per 500 gallons,

Ornamentals: 1-2 pints per 100 gallons

APPLICATION: Apply as a drenching spray.

PACKED: 2 x 2.5 Gal. - #23418, 55 gal. drums - #23416

CHELATED LIQUID IRON

CONTAINS: Iron 5%.

USE ON: Flowers, Shrubs, Trees, Vegetables and Lawns.

TO CONTROL: Iron deficiency (Yellowing of foliage), and to aid in the reduction of pH of spray water, which increases the stability of many pesticides.

RATE: Foliar: 1 Tbs. per gallon

Soil Drench: 1 fl. oz. per 100 sq. ft.

Lawns: 1 pt. per 1000 sq. ft.

Vegetables: 1-2 quarts per acre.

Trees: 2-4 quarts per 500 gallons.

Ornamentals: 1-2 pints per 100 gallons

APPLICATION: Apply as a drenching spray.

PACKED: 2 x 2.5 Gal. - #23428, 55 gal. - #23426

CHELATED IRON 10% DTPA

CONTAINS: sodium ferric diethylenetriamine pentaacetate

USE ON: Fruit and Nut crops, Field crops, Vegetables, Turf, Ornamentals.

FOR: The correction or prevention of iron deficiency.

RATE: 1/2 to 1 lb. per acre or 100 gallons.

On turf, 1/4 lb per 1,000 sq. ft.

APPLICATION: Apply as a heavy spray on even coverage.

PACKED: 6 x 5 lb. - #63975

CHELATED IRON 6% EDDHA

CONTAINS: sodium ferric ethylenediamine di-(o-hydroxyphenyl-acetate)

USE ON: Fruit and Nut crops, Field crops, Vegetables, Turf, Ornamentals.

FOR: The correction or prevention of iron deficiency.

RATE: 1 to 1-1/2 lb. per acre or 100 gallons.

On turf, 1 to 2 ounces per 1,000 sq. ft.

APPLICATION: Apply as a heavy spray on even coverage.

PACKED: 6 x 5 lb. - #63985

CHELATED PALM NUTRITIONAL

CONTAINS: 2.50% Manganese, 1.50% Magnesium, 1.0% Iron.

USE ON: Palms, and Ornamentals.

CONTROLS: Nutritional deficiencies in Palms and other ornamentals, and to aid in the reduction of pH of spray water, which increases the stability of many pesticides.

RATE: Palms: 1 - 2 tablespoons per gallon (1.5-3 qt. per 100 gl.) for preventative, 1 - 2 ounces per gallon (3-6 qt. per 100 gl.) for curative.

APPLICATION: Apply as a thorough cover spray to run off, also try to spray directly in the heart.

PACKED: 2 x 2.5 Gal. - #23398

ESSENTIAL MINOR ELEMENTS

CONTAINS: Magnesium 8.5%, Manganese 2.5%, Iron 4.0%, Copper 0.25%, Sulfur 8.0%, Zinc 1.0%, Boron .025%, Molybdenum .002%.

USE ON: Shrubs, Trees, Lawns, Turf, Flower and Vegetable Gardens.

FOR: The correction or prevention of many minor element deficiencies.

RATE: Gardens: Preventative: 1/4 - 1/2 cup per 10 sq. ft. or 1 1/4 - 2 1/2 lbs. (2 1/2 - 5 cups) per 100 sq. ft. Curative: 1 cup per 10 sq. ft. or 5 lbs. (10 cups) per 100 sq. ft. Turf: 1 lb. (2 cups) per 100 sq. ft. or 10 lbs. per 1,000 sq. ft.

APPLICATION: Apply dry, broadcasting over treatment area. Water in thoroughly.

PACKED: 40 lb. - #34409

HI IRON PLUS

CONTAINS: 16% Iron, Manganese 3%, Zinc 2%, Copper 0.5%, Boron 0.1% and Combined Sulfur 15% in easy to spread granular form.

USE ON: Turf grass, Shrubs and Trees.

FOR: Correction and Prevention of Iron and certain other minor element deficiencies.

RATE: Lawns 2- 3 lbs. per 1,000 sq. ft. Shrubs 1/4 - 1/2 cup per 100 sq. ft. Incorporation 1.5 - 2 pounds per cubic yard of media.

APPLICATION: Potting Mix; incorporate thoroughly. Plant Beds; mix with soil 1 - 6 inches deep. Lawns; spread uniformly and water in thoroughly.

PACKED: 25 lb. - #40577

SUPERCARB WITH MINORS

CONTAINS:

Magnesium (0.750 %), Manganese (0.375 %), Zinc (0.375 %), Iron (1.750 %), Copper (0.025 %), Total Sulfur (2.49 %), Boron (0.050 %), Molybdenum (0.0005 %).

USE ON: Plants and turf

RATE:

- 1 -2 quarts per acre
- 2-4 quarts per 100 gallons

APPLICATION: Foliar spray

PACKED: 2 x 2.5 Gal. - #66688

K-PLUS 0-0-14

CONTAINS:

2.00% Calcium as Ca, 7.00% Magnesium as Mg, 2.00% Manganese as Mn, 4.00% Iron as Fe, 0.50% Zinc as Zn, 0.12% Copper as Cu, 0.03% Boron as B, 1.14% Free Sulfur as S, 18.91% Combined Sulfur as S

USE ON: Plants and turf

RATE:

Turfgrass Applications: 2-4 lbs per 1000 sq ft.
Flower beds and vegetables: 2.5 lbs per 100 sq ft
Trees and Shrubs: 5 lbs per 100 sq ft

Palms: use 2-4 cups per palm depending on tree size
Potting Soil: Mix thoroughly with soil at the rate of 2 Tbl to 1/4 cup per 5 gal(20 quarts) soil

APPLICATION: Apply dry, broadcast over treated area, and water in.

PACKED: 50LB #77868

SOLUBLE FOLIAR BORON SPRAY

CONTAINS: 20.5% Elemental Boron

(66% B₂O₃) - Solubor.

USE ON: Apples, Cabbage, Broccoli, Cauliflower, Gladiolus, Carnations, Poinsettias, Tomatoes, and Citrus.

FOR: Correction and prevention of Boron deficiencies.

RATE: Vegetables: 1/2 - 1 lb. per 100 gallons, Citrus: 1 lb. per 500 gallons.

APPLICATION: Obtain thorough plant coverage with out run off.

PACKED: 12 x 2 lb. - #64702

SODIUM MOLYBDATE

CONTAINS: 39.0% Molybdenum (59% MoO₃)

USE ON: Citrus, Tomatoes and other crops

RATE: Spray: 5 lbs. per 100 gallons. **Drench:** 2 lbs. per 100 gallons.

Constant feed: 50-200 ppm.(See label for chart)

Turf: 1 lb. in 10 gallons per 1,000 sq. ft.

APPLICATION: Spray: thoroughly every 7 - 10 days. Drench: 100 gallons per 400 sq. ft. .

PACKED: 10 x 5 lb. poly bag - #11305, 25 lb. poly bag low dye - #64727, 25 lb. poly bag extra dye - #64737

TURF GREEN

CONTAINS:

Magnesium (0.750 %), Manganese (0.375 %), Zinc (0.375 %), Iron (1.750 %), Copper (0.025 %), Total Sulfur (2.49 %), Boron (0.050 %), Molybdenum (0.0005 %).

USE ON: Turf Grass

TO CONTROL: Secondary nutritional deficiencies

RATE:

FAIRWAYS, LAWNS AND OTHER TURF AREAS: 1-2 quarts in 20-200 gallons of water per acre.

GREENS: 2-3 quarts in 200 gallons of water per acre

FOLIAR APPLICATIONS on SHRUBS and OTHER ORNAMENTALS: 2-3 pints in 20 to 100 gallons of water per acre

APPLICATION: For ornamentals, spray to the point of run off. May damage open blooms at high rates. For Turfgrasses apply in irrigation or spray using 1-2 quarts in 20-200 gallons of water per acre.

PACKED: 2 x 2.5 Gal. - #72858, 55 Gal. #72858

SOLUBLE FERTILIZERS

MINOR ELEMENT SOLUBLE

CONTAINS: 8.15% Manganese, 3.2% Copper, 4.5% Zinc, 7.5% Iron, 15.0% Combined Sulfur, 1.45% Boron, and .046% Molybdenum. **The same as STEM^R.**

USE ON: Ornamentals, Turf, Vegetables

FOR: Correction and prevention of Minor Element deficiencies.

RATE: Foliar Spray 1/2 to 2 lbs. per 100 gallons, or Drench and Constant feed at 1/2 lb. per 100 gallons

APPLICATION: Full volume Spray or with injection ratio feeders.

PACKED: 25 lb. - #49267

SA SOLUBLE 9-15-30

TOTAL NITROGEN (N)	9.00%
5.00% Nitrate Nitrogen (N)	
4.00% Ammoniacal Nitrogen (N)	
0.00% Urea Nitrogen (N)	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅) ...	15.00%
SOLUBLE POTASH (K ₂ O)	30.00%
Chlorine - not more than	1.00%
Boron (B)	0.02%
0.02% Soluble Boron as B	
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

PLANT NUTRIENTS DERIVED FROM: Mono Ammonium Phosphate, Potassium Nitrate, Potassium Sulfate, Ammonium Sulfate, Sodium Borate, Cupric Disodium EDTA, Ferric Sodium EDTA, Manganous Sodium EDTA, Sodium Molybdate, Zinc Sodium EDTA, EDTA - Ethylenediaminetetraacetate

PACKED: 25 lb. - #64797

SA SOLUBLE 10-30-20 BLOOM BOOSTER

TOTAL NITROGEN (N)	10.00%
5.00% Nitrate Nitrogen (N)	
5.00% Ammoniacal Nitrogen (N)	
0.00% Urea Nitrogen (N)	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅)	30.00%
SOLUBLE POTASH (K ₂ O)	20.00%
Magnesium (Mg)	0.05%
0.05% Water Soluble Magnesium as (Mg)	
Boron (B)	0.02%
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	
Chlorine - not more than	1.00%

PLANT NUTRIENTS DERIVED FROM: Mono Ammonium Phosphate, Potassium Nitrate, Mono Potassium Phosphate, Magnesium Sulfate, Copper EDTA, Iron Sodium EDTA, Manganese EDTA, Sodium Borate, Sodium Molybdate, Zinc EDTA

PACKED: 25 lb. - #64800

SA HIGH NITRATE SOLUBLE 13-02-13

6% Ca 3% Mg

TOTAL NITROGEN (N)	13.00%
11.90% Nitrate Nitrogen	
1.31% Ammoniacal Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	2.00%
SOLUBLE POTASH (K ₂ O)	13.00%
Calcium as Ca.....	6.00%
Magnesium as Mg.....	3.00%
3.00% Water Soluble Magnesium as Mg	
Boron (B)	0.02%
Chlorine (not more than).....	1.00%
Copper (Cu).....	0.05%
0.05% Chelated Copper as (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.001%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn).	

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Urea Phosphate, Calcium Nitrate, Magnesium Nitrate, Ferric Sodium EDTA, Zinc Disodium EDTA, Manganous Disodium EDTA, Cupric Disodium EDTA, Sodium Borate, Sodium Molybdate.
EDTA - Ethylenediaminetetraacetate. ARTIFICIALLY COLORED

PACKED: 25 lb. poly bag - #64937

PLANT STARTER SOLUBLE FERTILIZER 12-48-8

TOTAL NITROGEN (N)	12.0%
2.30% Nitrate Nitrogen	
9.10% Ammoniacal Nitrogen	
0.60% Urea Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	48.0%
SOLUBLE POTASH (K ₂ O)	8.0%
Boron (B)	0.02%
Chlorine (Cl) - not more than	1.00%
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

PLANT NUTRIENTS DERIVED FROM: Ammonium Phosphates, Potassium Nitrate, Urea, Ferric Sodium EDTA, Manganous Disodium EDTA, Zinc Disodium EDTA, Cupric Disodium EDTA, Sodium Borate, Sodium Molybdate.
EDTA - Ethylenediaminetetraacetate. Artificially colored
Potential Acidity: 960 lbs. Calcium Carbonate Equivalent per Ton.

PACKED: 25lb bag- # 64807

SA SOLUBLE 16-3-16

with 4% Calcium and 2% Magnesium

TOTAL NITROGEN (N)	16.00%
13.20% Nitrate Nitrogen	
0.80% Ammoniacal Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	3.00%
SOLUBLE POTASH (K ₂ O)	16.00%
Boron (B)	0.02%
Calcium as Ca	4.00%
Chlorine (Cl) - not more than	1.00%
Copper (Cu)	0.015%
0.015% Chelated Copper (Cu)	
Iron (Fe)	0.125%
0.125% Chelated Iron (Fe)	
Magnesium as Mg	2.00%
2.00% Water Soluble	
Manganese (Mn)	0.04%
0.04% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.008%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn).	

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Ammonium Nitrate, Potassium Phosphate, Calcium Nitrate, Magnesium Nitrate, Ferric Sodium EDTA, Zinc Disodium EDTA, Manganous Disodium EDTA, Cupric Disodium EDTA, Sodium Borate, Sodium Molybdate.

EDTA - Ethylenediaminetetraacetate.

ARTIFICIALLY COLORED

PACKED: 25 lb. poly bag - #64810

SA SOLUBLE 20-05-30

TOTAL NITROGEN (N)	20.00%
9.10% Nitrate Nitrogen	
0.90% Ammoniacal Nitrogen	
10.0% Urea Nitrogen (N)	
AVAILABLE PHOSPHATE (P ₂ O ₅)	5.00%
SOLUBLE POTASH (K ₂ O)	30.00%
Boron (B)	0.02%
0.02% Soluble Boron as(B)	
Chlorine not more than 1.0%	
Copper (Cu).....	0.05%
0.05% Chelated Copper as (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
0.0005% Molybdenum as (Mo)	
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn).	

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Ammonium Phosphates, and Urea. Ferric Sodium EDTA, Zinc Sodium EDTA, Manganous Sodium EDTA, Cupric Disodium EDTA, Sodium Borate, Sodium Molybdate. EDTA - Ethylenediaminetetraacetate ARTIFICIALLY COLORED

PACKED: 25 lb. poly bag - #64857

SA SOLUBLE 20-20-20 (LOW DYE)

TOTAL NITROGEN (N)	20.00%
6.00% Ammoniacal Nitrogen	
5.98% Nitrate Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	20.00%
SOLUBLE POTASH (K ₂ O)	20.00%
Boron (B)	0.02%
Chlorine - not more than.....	1.00%
Copper (Cu).....	0.05%
0.05% Chelated Copper as (Cu)	
Total Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn).	

PLANT NUTRIENTS DERIVED FROM: Urea, Potassium Nitrate, Monoammonium Phosphate, Diammonium Phosphate, Sodium Borate, Cupric Disodium EDTA, Ferric Sodium EDTA, Manganous Disodium EDTA, Sodium Molybdate, Zinc Disodium EDTA. EDTA - Ethylenediaminetetraacetate. ARTIFICIALLY COLORED

PACKED: 25 lb. - #64727

SA SOLUBLE NITRATE SPECIAL 20-10-20

TOTAL NITROGEN (N)	20.0%
12.06% Nitrate Nitrogen (N)	
7.94% Ammoniacal Nitrogen (N)	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅) ...	10.0%
SOLUBLE POTASH (K ₂ O)	20.0%
Boron (B)	0.02%
Chlorine (Cl) - not more than	1.00%
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Ammonium Nitrate, and Ammonium Phosphates. Ferric Sodium EDTA, Zinc Sodium EDTA, Manganous Sodium EDTA, Cupric Disodium EDTA, Sodium Borate, Sodium Molybdate. EDTA-Ethylenediaminetetraacetate ARTIFICIALLY COLORED

PACKED: 25 lb. poly bag - #64847

SA SOLUBLE 20-20-20 (HIGH DYE)

TOTAL NITROGEN (N)	20.00%
6.00% Ammoniacal Nitrogen	
5.98% Nitrate Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	20.00%
SOLUBLE POTASH (K ₂ O)	20.00%
Boron (B)	0.02%
Copper (Cu).....	0.05%
0.05% Chelated Copper as (Cu)	
Total Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn).	
Chlorine - not more than.....	1.00%

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Monoammonium Phosphate, Diammonium Phosphate, Urea. Ferric Sodium EDTA, Zinc Disodium EDTA, Manganous Disodium EDTA, Cupric Disodium EDTA, Sodium Borate, Sodium Molybdate. EDTA - Ethylenediaminetetraacetate. ARTIFICIALLY COLORED

PACKED: 25 lb. - #64737

SA SOLUBLE ACID SPECIAL 21-7-7

TOTAL NITROGEN (N)	21.00%
2.10% Nitrate Nitrogen	
13.90% Ammoniacal Nitrogen	
5.00% Urea Nitrogen	
AVAILABLE PHOSPHATE (P ₂ O ₅)	7.00%
SOLUBLE POTASH (K ₂ O)	7.00%
Chlorine - not more than	1.00%
Potential Acidity 1510 lbs. Calcium Carbonate Equivalent Per Ton.	
Boron (B)	0.02%
Chlorine (Cl) - not more than	0.02%
Copper (Cu)	0.05%
0.05% Chelated Copper (Cu)	
Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Ammonium Phosphates, Urea, Ammonium Sulfate, Ferric Sodium EDTA, Zinc Sodium EDTA, Manganous Sodium EDTA, Cupric Disodium EDTA, Magnesium Sulfate, Sodium Borate, Sodium Molybdate. EDTA - Ethylenediaminetetraacetate

ARTIFICIALLY COLORED

PACKED: 25 lb. poly bag - #64897

SA SOLUBLE 30-07-14

TURF SPECIAL

TOTAL NITROGEN (N)	30.00%
4.30% Nitrate Nitrogen	
1.30% Ammoniacal Nitrogen	
24.4% Urea Nitrogen (N)	
AVAILABLE PHOSPHATE (P ₂ O ₅)	7.00%
SOLUBLE POTASH (K ₂ O)	14.00%
Boron (B)	0.02%
0.02% Soluble Boron as (B)	
Chlorine (not more than)	1.00%
Copper (Cu)	0.05%
0.05% Chelated Copper as (Cu)	
Iron (Fe)	0.20%
0.20% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
0.0005% Molybdenum as (Mo)	
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	

PLANT NUTRIENTS DERIVED FROM:

Urea, Monoammonium Phosphate, Diammonium Phosphate, Potassium Nitrate, Sodium Borate, Cupric Disodium EDTA, Ferric Sodium EDTA, Manganous Sodium EDTA, Sodium Molybdate, Zinc Sodium EDTA. ARTIFICIALLY COLORED.

PACKED: 25 lb. poly bag - #64877

SA SOLUBLE 24-8-16

TOTAL NITROGEN (N)	24.00%
5.00% Ammoniacal Nitrogen (N)	
5.00% Nitrate Nitrogen (N)	
14.00% Urea Nitrogen (N)	
AVAILABLE PHOSPHATE (P ₂ O ₅)	8.00%
SOLUBLE POTASH (K ₂ O)	16.00%
Soluble Boron as (B)	0.02%
Copper (Cu)	0.05%
0.05% Chelated Copper as (Cu)	
Total Iron (Fe)	0.10%
0.10% Chelated Iron (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese (Mn)	
Molybdenum (Mo)	0.0005%
Zinc (Zn)	0.05%
0.05% Chelated Zinc (Zn)	
Chlorine - not more than	1.00%

PLANT NUTRIENTS DERIVED FROM: Urea, Ammonium Sulfate, Ammonium Phosphates, Potassium Nitrate, Sodium Borate, Cupric Disodium EDTA, Ferric Sodium EDTA, Manganous Sodium EDTA, Sodium Molybdate, Zinc Sodium EDTA EDTA - Ethylenediaminetetraacetate

ARTIFICIALLY COLORED

PACKED: 25 lb. - #64887

HYDROPONIC FERTILIZERS

SA 4-18-38 HYDROPONIC

TOTAL NITROGEN (N)	4.00%
3.50% Nitrate Nitrogen	
0.50% Ammoniacal Nitrogen	
AVAILABLE PHOSPHORIC ACID (P ₂ O ₅)	18.00%
SOLUBLE POTASH (K ₂ O)	38.00%
BORON (B)	0.20%
COPPER (Cu)	0.05%
IRON (Fe)	0.40%
0.40% Chelated Iron as (Fe)	
Manganese (Mn)	0.20%
0.20% Water Soluble Manganese as (Mn)	
Molybdenum (Mo)	0.01%
Zinc (Zn)	0.05%
0.05% Chelated Zinc as (Zn)	
Chlorine - not more than	1.00%

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Potassium Phosphate, Potassium Sulfate, and Ammonium Phosphate. Boric Acid, Copper Sulfate, Sodium Ferric Diethylenetriamane pentaacetate, Manganese Sulfate, Sodium Molybdate, Zinc Disodium Ethylenediaminetetraacetate.

PACKED: 25lb #64757

SA 05-11-26 HYDROPONIC SPECIAL

TOTAL NITROGEN (N)	5.00%
5.00% Nitrate Nitrogen	
0.00% Ammoniacal Nitrogen	
AVAILABLE PHOSPHORIC ACID (P2O5)	11.00%
SOLUBLE POTASH (K2O)	26.00%
Magnesium as Mg	3.20%
3.2 % Water Soluble Magnesium as Mg	
Chlorine (not more than)	1.00%
Iron (Fe)	0.30%
0.30% Chelated Iron as (Fe)	
Manganese (Mn)	0.05%
0.05% Chelated Manganese as (Mn)	
Zinc (Zn)	0.05%
0.05% Chelated Zinc as (Zn)	
Copper (Cu)	0.05%
0.05% Chelated Copper as (Cu)	
Boron (B)	0.05%
Molybdenum (Mo)	0.01%

PLANT NUTRIENTS DERIVED FROM: Potassium Phosphate, Potassium Nitrate, Ferric Sodium EDTA, Manganous Disodium EDTA, Zinc Disodium EDTA, Copper Sulfate, Magnesium Sulfate, Sodium Borate, Sodium Molybdate.

USE: To be used in combination with other materials such as Calcium Nitrate and Epsom Salts to deliver the correct nutritional needs of the hydroponic grower.

RATE: 8lbs/1,000 gallons of water

PACKED: 25lb #64777

SA 8-15-36

HYDROPONIC VEGETABLE SPECIAL

TOTAL NITROGEN (N)	8.00%
7.50% Nitrate Nitrogen (N)	
0.50% Ammoniacal Nitrogen (N)	
AVAILABLE PHOSPHORIC ACID (P2O5)	15.00%
SOLUBLE POTASH (K2O)	36.00%
Boron (B)	0.20%
Copper (Cu)	0.05%
Iron (Fe)	0.40%
0.40% Chelated Iron as (Fe)	
Manganese (Mn)	0.20%
0.20% Water Soluble Manganese as (Mn)	
Zinc (Zn)	0.05%
0.05% Chelated Zinc as (Zn)	
Molybdenum (Mo)	0.01%
Chlorine- not more than	1.00%

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Potassium Phosphate, Potassium Sulfate, and Ammonium Phosphate.

Boric Acid, Copper Sulfate, Sodium Ferric Diethylenetriamine pentaacetate, Manganese Sulfate, Sodium Molybdate, Zinc Sulfate and Zinc Disodium Ethylenediaminetetraacetate.

USE: This fertilizer has been formulated for growing plants in soilless culture.

RATE: 8oz per 100 gallons of water

PACKED: 25lb #64787

SA SOLUBLE 11-11-40 HYDROPONIC SPECIAL

TOTAL NITROGEN (N)	11.00%
10.40% Nitrate Nitrogen (N)	
0.60% Ammoniacal Nitrogen (N)	
AVAILABLE PHOSPHORIC ACID (P2O5)	11.00%
SOLUBLE POTASH (K2O)	40.00%
Boron (B)	0.10%
Copper (Cu)	0.03%
0.03% Chelated Copper as (Cu)	
Iron (Fe)	0.20%
0.20% Chelated Iron as (Fe)	
Manganese (Mn)	0.20%
0.20% Water Soluble Manganese (Mn)	
Molybdenum (Mo)	0.01%
Zinc (Zn)	0.03%
0.05% Chelated Zinc as (Zn)	
Chlorine- not more than	1.00%

PLANT NUTRIENTS DERIVED FROM: Potassium Nitrate, Potassium Phosphate, Ammonium Phosphate, Sodium Borate, Cupric Disodium EDTA, Sodium Ferric Diethylenetriamine pentaacetate, Manganese Sulfate, Sodium Molybdate and Zinc Sulfate.

USE: This fertilizer has been formulated for growing plants in soilless culture.

PACKED: 25lb #64947