



**THRIVE<sup>®</sup> K-Max**  
 12-8-30 Water Soluble Fertilizer  
 Concentrate with Micronutrients

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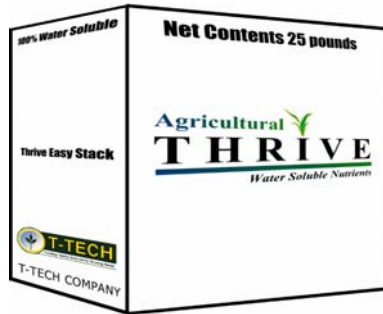
— Foliar Application —

**Product Description**

THRIVE<sup>®</sup> 12-8-30 is a water soluble fertilizer that is formulated from the highest quality materials. It contains a high potassium formulation with EDTA micronutrients for improving boll development, maturity, and fiber strength in cotton. It can also be used in greenhouse applications for improved fruit development, maturity, and disease resistant. In addition to nutritive value, the “Thrive Easy Stack System” (resealable bag within a box) allows for convenient handling and warehousing. Maximum results will be achieved when used in conjunction with a well balanced soil fertility program.

**Guaranteed Analysis**

Nitrogen (N).....	12.0%
(1.5% Nitrate Nitrogen)	
(6.5% Ammoniacal Nitrogen)	
(4.0% Urea Nitrogen)	
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	8.0%
Soluble Potash (K <sub>2</sub> O) .....	30.0%
Sulfur (S).....	3.00%
Boron (B).....	1.00%
Copper (Cu) .....	0.25%
(0.25% Chelated Copper)	
Iron (Fe) .....	0.10%
(0.10% Chelated Iron)	
Manganese (Mn) .....	0.10%
(0.10% Chelated Manganese)	
Molybdenum (Mo) .....	0.0005%
Zinc (Zn).....	0.10%
(0.10% Chelated Zinc)	



Plant nutrients derived from Potassium Nitrate, Ammonium Phosphate, Potassium Sulfate, Urea, Sodium Borate, Sodium Molybdate, and EDTA chelates of Copper, Iron, Manganese, and Zinc. The maximum Chlorine (Cl) content is 0.25%.

**Potential acidity:** 345 lbs calcium carbonate equivalent per ton

**Physical Properties**

Water solubility	100%
Appearance	Greenish color

Available in 25 pound boxes.

**General Application and Use**

THRIVE<sup>®</sup> 12-8-30 provides agronomic and economic benefits in an easy to use water soluble form. Proper timing, rate, and placement is important for desired results and highly dependent on stage of crop growth, soil fertility levels, and environmental conditions. When used as a foliar fertilizer application (or leaf feeding), water soluble fertilizer concentrates (i.e. THRIVE<sup>®</sup> 12-8-30) will help maximize yields in many field, row crops, orchard, and small grain crops, and turf. Foliar application is part of an overall

fertilizer strategy and should be used in conjunction with soil-applied fertilizers. THRIVE® 12-8-30 can be applied either alone, or with pesticides. However a small “jar test” is recommended to ensure compatibility of ingredients.

*THRIVE® 12-8-30 provides many potential benefits:*

1. Increase fertility levels during periods of high plant growth.
2. Provide an immediate nutrient response during periods of peak demand.
3. Target crop quality characteristics through timed applications of specific nutrients.
4. Allow split application of N to reduce nitrate leaching.
5. Apply micronutrients during periods when soil conditions are not conducive to root uptake.
6. Allows rescue applications of nutrients until a soil-applied operation can be conducted.
7. Compensate for poor root growth and nutrient uptake in cold soils or due to poor soil pH balance.

The EDTA chelated form of micronutrients found in THRIVE® 12-8-30 also enhance the uptake and utilization of micronutrients in the plant.

## **Recommendations**

**General Applications:** Use 5 to 10 pounds per acre. May be applied by aircraft at rates as low as 5 pounds per 2 gallons of water per acre.

**Back pack Sprayers:** Use 4 teaspoons per gallon of water.

**Corn, Soybeans, Sorghum:** As a foliar spray, use 5 to 10 pounds per acre, one to five times at 7 to 10 day intervals depending on crop and season conditions. Unfavorable growing conditions may require higher number of treatments, as root development may be inhibited due to cool soils.

**Cotton, Peanuts, Sugar Beets, Table Beets, Sweet Potatoes:** As a foliar spray, use 5 to 10 pounds per acre. First treatment when plants are 3 to 4 weeks old or when there is sufficient foliage for spraying. One to five applications depending upon amount of growth desired or when supplemental feeding is necessary.

**Small Grains:** As a foliar spray, use 5 to 10 pounds per acre just prior to head formation.

**Forage and Hay:** As a foliar spray, use 5 to 10 pounds per acre at 7 to 10 day intervals in order to achieve desired growth.

**Blackberries, Blueberries, Cranberries, Grapes, Raspberries, Strawberries:** As a foliar spray, use 5 to 10 pounds per acre early in the season or when vines or canes require extra growth. Can be applied at 7 to 10 day intervals. **Caution: Where fruit maturity or color is delayed by nitrogen, do not use within 60 days of ripening.**

**Apples, Apricots, Avocodos, Cherries, Citrus, Figs, Kiwi, Mangos, Nectarines, Papaya, Pears, Peaches, Plums:** As a foliar spray apply 5 to 10 pounds per acre. For dilute sprays use 5 pounds per 250 gallons of water. Apply early in the season or when improved plant vigor is required. Concentrate sprays can be applied at 5 to 10 pounds per acre in no less than 40 to 50 gallons water per acre. Three to four applications may be applied per growing season. **Caution: Do not use in late season sprays where fruit maturity or color is delayed by nitrogen applications.**

**Almonds, Chestnuts, Filberts, Macadamias, Pecans and Walnuts:** Dilute foliar sprays, use 2 pounds per 100 gallons of water. Concentrate foliar sprays, use 5 to 10 pounds per acre 3 to 4 times per season. Apply early in the season or when improved plant vigor is required.

**Beans, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Celery, Cucumber, Endive, Kale, Lettuce, Melons, Onions, Parsley, Peas, Peppers, Pumpkins, Radishes, Spinach, Squash, Sweet Corn, Tomatoes:** As a foliar spray, use 5 to 10 pounds per acre in 250 gallons of water. Apply when crop is 3 to 4 weeks old, repeat at 7 to 10 day intervals or as needed, depending on weather conditions and amount of growth desired. Up to six applications may be done per season.

**Asparagus, Carrots, and Parsley:** Higher rates of 10 to 15 pounds per acre may be used on these crops as foliar sprays, with frequency of application dependent upon growth desired.

**Potatoes:** As a foliar spray, use at a rate of 5 to 10 pounds per acre. Begin application after plants are established and have sufficient foliage for spraying. Apply at 7 to 10 day intervals.

**Tobacco:** As a foliar spray, use at a rate of 5 to 10 pounds per acre, at two week intervals. Frequency depends on weather conditions, growth and color desired.

**Hops and Mint:** As a foliar spray, use at a rate of 5 to 10 pounds per acre up to five times depending on weather conditions and growth desired.

**Commercial Nursery and Greenhouse:** As a foliar spray, use at a rate of 2 to 4 pounds per 100 gallons of water.

**Greenhouse Cut Flowers, Flats, Small Pots:** Use 2 pounds per 100 gallons of water for intermittent feeding (once every two weeks). For constant feeding use 4 to 8 ounces per 100 gallons of water.

**Container Foliage Plants:** Use up to 3 1/2 pounds per 100 gallons of water for intermittent feeding (once every two weeks). For constant feeding use 6 to 12 ounces per 100 gallons of water.

**Sprinkler Systems:** Use 1-3/4 pounds per 100 gallons of water every 2-3 weeks or 1/2 pound per 100 gallons of water 2 to 3 times per week.

**Starter and Transplant:** Dissolve 2 pounds per 100 gallons of water using 4 to 8 ounces of solution per plant. To prepare slurry, add 1/4 pound to a 3 gallon bucket of puddled soil.

**Established Lawns, Turf, and Golf Greens:** Apply 1 pounds per 1000 square feet with a water rate of 1 to 3 gallons or 5 pounds per 5,000 square feet with a water rate of 5 to 15 gallons every 7 to 10 days or as needed. Shaded grass requires less plant nutrients than grass grown in full sun.

**Hydro Seeding:** Use 1 pounds per 1000 square feet with Hydro-Seeding Slurry.

**Landscape Trees and Shrubs:** As a foliar spray or root feeding, use 2 pounds per 100 gallons of water.

**Injector—Proportioner Ratios:** Thrive can be used as a constant feed, or intermittent feeding system. Follow the below recommended rates for each specific crop.

	Intermittent Feeding	Constant Feeding	Bedding plants	Golf Greens, Lawns And Turf
Rate	10½ ounces per 26 gal (300 g per 100 L)	¾ to 3½ ounces per 26 gal (25 - 100 g per 100 L)	3½ to 7 ounces per 26 gal (100 - 200 g per 100 L)	21 ounces per 5 gal (600 g per 20 L)
Frequency	Every 2 weeks	Every Watering	Once per week	Every 2 weeks
Coverage	26 gal per 107 ft <sup>2</sup> or 26 gal per 450 pots  (100 L per 10m <sup>2</sup> or 100L per 450 pots)	(26 gal per 107 ft <sup>2</sup> 26 gal per 450 pots)  (100 L per 10m <sup>2</sup> or 100L per 450 pots)	26 gal per 50 - 100 flats  (100L per 50 - 100 flats)	5 gal per 1000 ft <sup>2</sup>  (20 L per 100m <sup>2</sup> )

## **Handling and Storage**

THRIVE<sup>®</sup> 10-5-40 should be stored in a cool, well-ventilated location out of direct sunlight. Spills from broken containers can be cleaned up with absorbing clay or other suitable materials. Avoid inhalation of spray mist if possible. Avoid contact with skin and eyes. Wear proper protective equipment when handling. Dispose of used containers in accordance with local, state, and federal regulations. Keep out of reach of children.

**NOTICE:** T-TECH Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on such label only when used in accordance with the directions under normal use. 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 application, all of which are beyond the control of T-TECH Company. In no case shall T-TECH Company be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer.