



# A BIOTIC REVOLUTION



## WHAT IS PERFECT BLEND

We are a leading manufacturer of organic plant food, highly regarded for excellent quality and service. Perfect Blend is dedicated to using the latest in scientific research and technology to create and manufacture organic products that incorporate a complete philosophy of advanced soil nutrition. Perfect Blend has undertaken independent research and development aimed at advancing our ability to offer the finest soil nutrition products in the world.

## PERFECT BLEND BENEFITS

- Environmentally friendly
- Fully sustainable
- Builds deep root system
- Fewer applications
- Stable / low leach
- No unpleasant odor
- High moisture retention
- Less pesticide and fungicide use



***“Healthy Soil...Healthy Plants!”***

***“Healthy Soil...Healthy Lawns!”***

## THE UNIQUE ADVANTAGES OF PERFECT BLEND BIOTIC FERTILIZERS

### **Complete Biotic Nutrition**

Perfect Blend biotic formulations are nutritionally complete and balanced. Perfect Blend formulations are complete with a balanced formulation of the primary, secondary and trace mineral nutrients necessary to achieve the highest level of microbial growth. As a result, Perfect Blend avoids the problems that occur when soil microbes receive only partial nutrition, which results in a slower pattern of stop-and-start growth of microbial populations.

### **pH-Balanced Formulations**

Perfect Blend biotic fertilizers are made using proprietary technology to lower the pH of the manure feedstock. This process provides a pH-balanced formulation that soil microbes find favorable.

### **Homogenized Formulations**

Fertilizers that are simply blended are not necessarily homogenized. Perfect Blend biotic fertilizers are homogenized, maximizing the efficiency.

### **Chelated Nutrients**

Mineral nutrients in Perfect Blend biotic fertilizers are chelated during manufacturing. This allows the mineral nutrients in Perfect Blend biotic fertilizers to be immediately available in proper ionic form for use by plants and soil microbes.



## HOW IS PERFECT BLEND BIOTIC FERTILIZER MADE?

Perfect Blend uses a patent-pending process to manufacture our biotic fertilizers. Raw feed stock, high-grade fish waste and chicken manure, is sterilized. It is made into a uniform feed stock, the material is blended with elemental minerals. The mix is then reacted using high-speed controlled system that slowly and gently create new molecular structures, which are highly water soluble for use by soil microbes. Fertilizers are granulated, dried before inoculants are added.

## HOW PERFECT BLEND BIOTIC FERTILIZER WORKS IN THE SOIL?

Perfect Blend has worked to improve upon nature's system of soil fertility, which is described below. Our biotic fertilizers are designed to mimic nature in generating growth in soil microorganism populations, which provide the key to soil fertility.

Natural soil fertility is always the result of the life cycle of soil microorganisms, which contain high protein levels and therefore must contain high levels of elemental minerals. Every bacterium is a tiny bag of fertilizer that contains all the nutrients that a plant needs to grow to its full genetic potential. By feeding soil microbe populations focused nutrients, they grow, die and leave their remains in the form of soil acids. Soil acids are basic components of humus. Once the natural fertility is established in soil, it remains for long periods of time, consumed by plants or recycled by other soil microbes regenerating soil fertility.

Natural soil fertility builds in soils that have repeated growth of soil microbe populations. Such soils build carbon nutrients, based on the soil microbe populations, which are the most efficient plant nutrients on Earth. Once a soil has built carbon nutrients, the soil has a greater ability to retain moisture in gel forms made from soil acids. These gels provide a reservoir of moisture to plants, which means that

plants enjoy greater resistance to weather extremes and freeze at lower temperatures. Soil gels play an important role in checking erosion and preventing compaction of soils.

## HOW OFTEN SHOULD I FERTILIZE MY PLANTS AND LAWN?

Application rates vary we recommend that you follow the directions on each label, but generally, biotic fertilizers are applied less frequently than chemical formulations. Biotic fertilizers should be applied in the fall for flowering shrubs and trees to allow maximum blooms in the spring. Trees are fertilized once a year. Lawns are fertilized three or four times a year. Gardens are fertilized in the fall or winter for a spring garden and in the spring for a fall garden.

## WHAT DOES OUR FERTILIZER DO FOR YOUR GARDEN AND LAWN ?

Perfect Blend biotic plant and lawn food is designed to build up topsoil fertility values in your garden and lawn. These fertility values include a full range of elemental mineral values that create natural soil fertility. Perfect Blend biotic fertilizer combines scientifically balanced proportions of primary minerals (nitrogen, phosphorus, potash), important secondary minerals (calcium, magnesium and sulfur) and necessary trace minerals.



## THE BENEFITS OF MYCORRHIZAL FUNGI

### What are mycorrhizal fungi?

Mycorrhizae is a root fungus that establishes colonies in and around plant roots, sending out thousands of tiny tubes into the surrounding soils to find and uptake plant nutrients. These hollow tubes, known as hyphae, are primary conduits of minerals, soil-contained amino acids, phytochemicals, moisture and a multitude of other nutrients. The mycorrhizal fungus feeds the plants, and in return the plants provide CO<sub>2</sub> and other nutrients to the fungus. The fungus also stores any excess, unneeded nutrients for future plant use in the form of glomalin, a high-grade nutrient source. The tiny mycorrhizal hyphae are vital in forming high-grade organic soils, as is glomalin, which becomes an important component of soil organic matter.

Vital mycorrhizal colonies can vanish due to over-fertilization, compaction or previous misuse. Perfect Blend fertilizers reinforce existing colonies and re-start new mycorrhizal colonies in soils where natural colonies have been lost. The high-quality nutrients provided by Perfect Blend fertilizers are formulated at the right pH and nutrient balance for optimum mycorrhizae growth.

### What are the benefits of mycorrhizal fungus?

Most shrubs, trees, lawn and garden plants benefit from mycorrhizal fungus. The result of the use of mycorrhizal fungus in Perfect Blend biotic fertilizer is greater plant vitality and health, better moisture management in the root zone and increased soil values. Perfect Blend adds the fungus to our fertilizers to help balance soil microorganism populations for enhanced soil fertility.

## ADVANCED TECHNOLOGY

### PERFECT BLEND BIOTIC FERTILIZERS ARE SAFE FOR USE IN GARDENS AND WITH LAWN GRASS, SHRUBS & TREES .

**Advanced technology** – Perfect Blend biotic fertilizers mimic natural soil fertility and therefore can be applied to most soil types regardless of soil chemistry.

**Slow entry into the soil** – Perfect Blend biotic fertilizers enter the soil gently as the water-soluble granules transform into a tea that easily penetrates the topsoil to provide nutrients.

**Concentrated soil acids** - Perfect Blend biotic fertilizers rapidly build concentrated soil acids that are the basis of soil humus. Upon exposure to moisture, these slightly acidic compounds form into soil acid gels — an important part of nature's program for holding soil moisture and protecting soil from erosion.

**Two types of biotic fertilizers** - Perfect Blend 4-4-2 100% organic biotic fertilizers that are registered under the USDA National Organic Program (NOP) for use by 100% organic growers. Perfect Blend also manufactures 8-4-2 with added urea supplemental forms that is not USDA NOP compliant. Both types of fertilizers offer high levels of biotic performance. The 100% organic products manufactured by Perfect Blend are in widespread use in the commercial organic agriculture industry, and both products are used in commercial landscaping and on sports turf venues nationwide.

**Unique manufacturing process** - Perfect Blend manufacturers biotic fertilizer under a patent-pending process . We gently alters the nature of the feedstock without traditional composting or other processing forms that destroy vital natural nutrients.

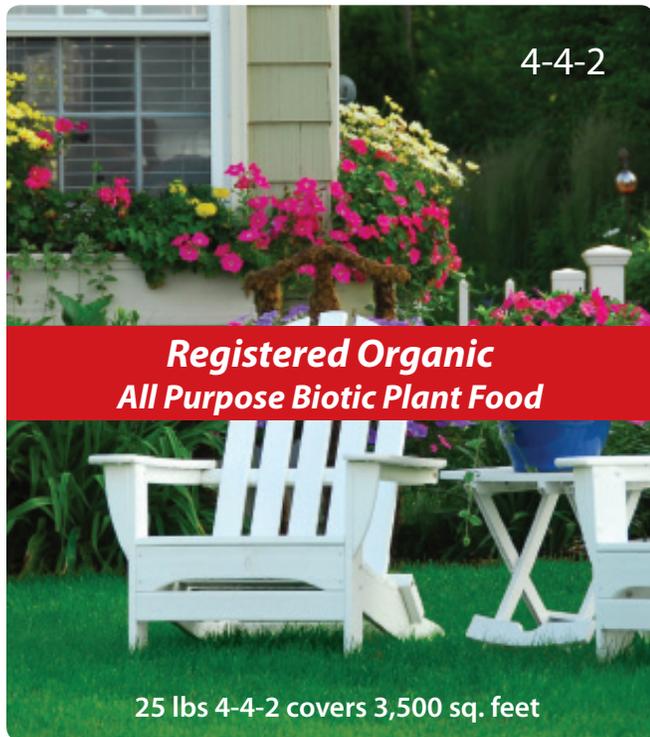
**Environmentally safe** - Perfect Blend biotic fertilizers are low-leach. Soils fertilized with Perfect Blend are considered safe for kids and pets.

**Complete formulations** - Patent-pending Perfect Blend biotic fertilizers are made with complete nutrient formulations that we believe are unmatched by our competitors. Please read the labels, compare, and decide for yourself whether Perfect Blend is the world's best fertilizer.



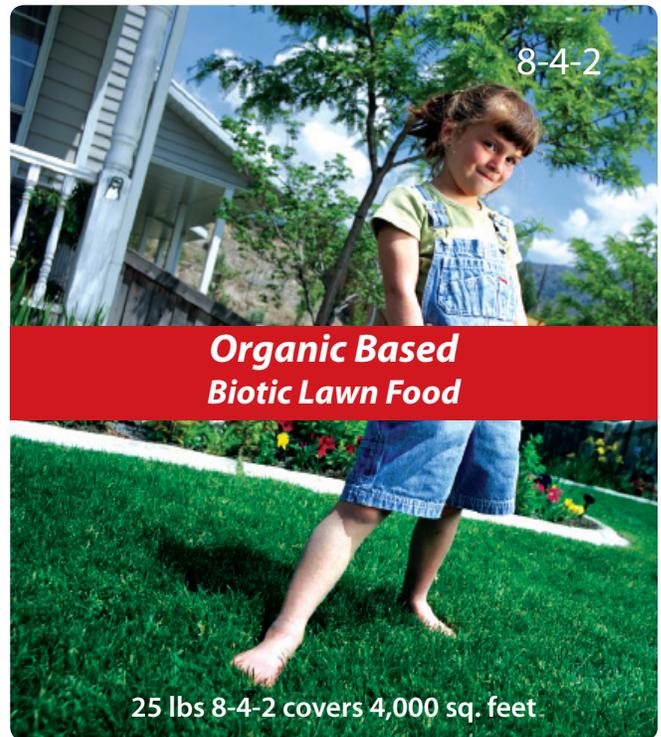
## BENEFITS OF USING PERFECT BLEND 4-4-2!

- Adds nutrients to tired lawns and maintains the level of nitrogen and other primary, secondary and trace minerals nutrients needed to keep lawns lush.
- Provides a complex nutrition to soil that helps plants grow thick, healthy roots, and assists plants in the gathering of required nutrients while maintaining a balanced pH level in the soil.
- Low odor; does not attract flies and other pests.
- All purpose biotic fertilizer, safe for all your landscaping needs.
- Benefits fruits and vegetables by enhancing the brix (sugar) levels in your plants. High brix levels mean naturally healthier vegetables, less fruit bruising and a longer shelf life.



## BENEFITS OF USING PERFECT BLEND 8-4-2!

- Turns tired lawns into lush green lawns
- Twice the efficiency of synthetic nitrogen
- Contains 15 essential nutrients
- Slow, natural release
- Non-leaching
- Safe for use around lakes and streams
- Balanced formulation
- Promotes soil microbe growth
- Contains mycorrhizal inoculants
- High in amino acids
- Natural nitrogen source
- Restores nutrients to over-fertilized soil



**Great for Lawns and Gardens!**  
Covers 3,500 sq.ft.  
**Slow Release Fertilizer!**



4-4-2

Apply with any conventional fertilizer spreader!

## ALL PURPOSE BIOTIC PLANT FOOD

### Registered for Organic Gardening

Perfect Blend 4-4-2 is designed, when applied correctly, to meet your fertilizer needs for garden, nursery, house plants, patio plants, and lawn.

#### The Perfect Blend Advantage :

Perfect Blend fertilizers are made using a proprietary process that produces high quality nutrients focused as nutrition for the soil microbes responsible for natural soil fertility.

#### Now with Mycorrhizal Spore Inoculants!

Mycorrhizal fungi are not hazardous to humans and provide great benefits to most turf grasses, plant, shrubs, and trees. Perfect Blend plant food is inoculated with a blend of three dormant mycorrhizal spore species. 100% mycorrhizal strength guaranteed for two years after bag crimp date if product is kept in a dry location at less than 110° F. Fertilizer nutrient values expire after seven years.

#### APPLICATION DIRECTION:

**Small Garden - Vegetables:** Apply 5 cups along the bottom of a 24 foot section of planting rows, then cover the fertilizer with a thin layer of soil. Place your seeds on this soil layer, then cover. For mounding plants place one cup in the bottom and sides of the planting hole and cover with soil. For legumes, put one cup every 50 feet, for best results plants seeds cover with soil and ½ cup of water.

**Bedding Plants & Flower Beds:** Place 1/4 tsp of food in the bottom of the hole provided for the bedding plant. Place the plant directly into the hole and on top of the plant food and water.

**Ornamentals and Trees:** Place 1/3 cup of Perfect Blend plant food in the bottom and around the edges of the hole before planting. After planting, for every 2 feet of plant height, mix an additional 1/3 cup in the soil used to fill the hole and pack around the roots.

**Established Planting:** During the growing season apply an additional 5 cups every 50 feet along the plants drip line after your plants bloom. Always water in newly applied plant food.

**Container Plants:** Mix 1/2 tsp of Perfect Blend plant food into every quart of potting soil. Repeat every 4 to 6 weeks.

**Inside Potted House Plants:** Make small holes in the soil along the edge of the container and into the root zone. Apply 1/4 tsp of food into each hole. Use 1 tbsp. every 6 feet or 1/2 tsp for a 6 inch pot. Perfect Blend can be mixed with ½ tsp. per quart of water to water a typical six-inch potted plan.

#### Directions For Kids & Pets Safe Lawn Applications:

**Established Existing Lawns:** Will require routine applications; they are beneficial and highly recommended. Apply at the rate of 25 lbs for every 3,500 square feet every 60 days. Water well and wait overnight before allowing children and pets onto the fertilized area.

**New Lawns:** Will benefit from a heavy application of Perfect Blend 4-4-2. Apply at the rate of 25 lbs per 1,500 square feet and water well.

**Sod application:** Apply 25 lbs for every 1,500 square feet of plant food to soil, lay sod and water well.

**Newly seeded lawns:** Will benefit from a heavy base application of Perfect Blend 4-4-2. Apply at a rate of 25 lbs per 1,500 square feet and water well ! After lawn is established follow existing lawn food application guidelines.

#### SPREADER SETTINGS:

Most Rotary Spreaders including Scotts Broadcast Rotary Spreader - Setting 7 ½

Most Drop Spreaders including Scotts Drop Spreader – Setting 10 ½

#### CAUTION

##### KEEP OUT OF REACH OF CHILDREN

Perfect Blend, LLC recommends that this product, as well as any fertilizer, be kept out of reach of children. This product, while of a relatively mild nature, may be harmful or fatal if swallowed and may cause skin and eye irritation. Avoid breathing in the dust. Avoid contact with skin, eyes, and clothing. Washing skin with water and soap after handling. If in eyes, flush eyes thoroughly with water for 10 minutes. Repeat as needed, and follow up with a physician.

#### Guaranteed Analysis

Total Nitrogen (N).....	4.00%
0.40% Ammoniacal Nitrogen	
0.03% Nitrate Nitrogen	
1.50% Water Soluble Nitrogen	
2.07% Water Insoluble Nitrogen *	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	4.00%
Soluble Potash (K <sub>2</sub> O) .....	2.00%
Calcium (Ca) .....	7.0000%
Total Magnesium (Mg) .....	0.7000%
0.70% Water Soluble Magnesium (Mg)	
Sulfur (S) .....	1.5000%
Boron (B) .....	0.0200%
Cobalt (Co) .....	0.0005%
Copper (Cu) .....	0.0500%
Iron (Fe) .....	0.1000%
0.10% Water Soluble Iron (Fe)	
Manganese (Mn) .....	0.0500%
Molybdenum (Mo) .....	0.0005%
Sodium (Na) .....	0.1000%
Zinc (Zn) .....	0.0500%

#### Derived From:

Chicken Manure, Liquid Fish, Elemental Sulfur, Manganese Sulfate, Ferrous Sulfate, Copper Sulfate, Cobalt Sulfate, Molybdenum Oxide, Sulfate of Potash, Boric Acid

\* Slow Release Nitrogen from Chicken Manure

#### ALSO CONTAINS NONPLANT FOOD INGREDIENTS

#### Mycorrhizal spore species:

Glomus intraradices 0.86 propagules per gram  
Glomus aggregatum 0.86 propagules per gram  
Glomus mosseae 0.86 propagules per gram

Chlorine (Cl) not more than .....0.1000%

F1542

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

#### Perfect Blend, LLC

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Phone: 866.456.8890

[www.perfect-blend.com](http://www.perfect-blend.com)

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MADE IN USA



8-4-2



Apply with any conventional fertilizer spreader!

Great for Lawns!  
Covers 4,000 sq.ft.  
Slow Release Fertilizer!

## BIOTIC LAWN FOOD WITH 14 ESSENTIAL ELEMENTS 80% Natural Organic Based, 20% Integrated Minerals



### Sustains beautiful lawns and restores Low Soil Organic Matter Levels In Worn-Out Lawns.

Even the best cared for lawns will become depleted of the valuable nutrients found in soil organic matter after repeated use of synthetic fertilizers that do not contain organic nutrients. Perfect Blend will sustain beautiful lawns and will provide valuable organic components specially formulated to restore and rejuvenate lawns.

### The Perfect Blend Advantage:

Perfect Blend fertilizers are made using a proprietary process that produces high quality nutrients focused as nutrition for the soil microbes responsible for natural soil fertility.

### Now with Mycorrhizal Spore Inoculants!

Mycorrhizal fungi are not hazardous to humans and provide great benefits to most turf grasses, plant, shrubs, and trees. Perfect Blend lawn food is inoculated with a blend of three dormant mycorrhizal spore species. 100% mycorrhizal strength guaranteed for two years after bag crimp date if product is kept in a dry location at less than 110° F. Fertilizer nutrient values expire after seven years.

### LOW LEACH – SAFE FOR APPLICATIONS NEAR STREAMS & LAKES!

Since Perfect Blend fertilizers are naturally stable in the soil they are a low leach fertilizer. It can be safely applied close to sensitive lakes and streams.

### A SAFE PRODUCT!

Virtually pathogen free, Perfect Blend usually does not appeal to pets.

### DIRECTIONS FOR KIDS & PETS SAFE LAWN APPLICATIONS:

**Established lawns:** Will require routine applications; they are beneficial and highly recommended. Apply at the rate of 25 lbs for every 4,000 square feet every 60 days. Water well and wait overnight before allowing children and pets onto the fertilized area.

**New Lawns:** Will benefit from a heavy base application of Perfect Blend 8-4-2. Apply at the rate of 25 lbs per 2,000 square feet and water well. For Sod application: Apply lawn food to soil, lay sod and water well.

**Newly seeded lawns:** Will benefit from a heavy base application of Perfect Blend 8-4-2. Apply at a rate of 25 lbs per 1,500 square feet and water well! After lawn is established follow existing lawn food application guidelines.

### NON-LAWN APPLICATIONS:

Perfect Blend is a mild organic based fertilizer that may be applied on flowers, shrubs, trees and other non-lawn applications. It may also be used in vegetable gardens and house plants. Apply 2 cups around and in the hole of a new shrub or tree avoiding direct contact with plant roots. For containers mix two tablespoons for every quart of potting soil.

### SPREADER SETTINGS:

**Most Rotary Spreaders including Scotts Broadcast Rotary Spreader** - Setting 7 ½

**Most Drop Spreaders including Scotts Drop Spreader** - Setting 10 ½

### Guaranteed Analysis

Total Nitrogen (N).....	8.00%
1.76% Ammoniacal Nitrogen	
0.04% Nitrate Nitrogen	
3.20% Water Soluble Nitrogen	
3.00% Water Insoluble Nitrogen *	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> ) .....	4.00%
Soluble Potash (K <sub>2</sub> O) .....	2.00%
Calcium (Ca) .....	7.0000%
Magnesium (Mg) .....	0.7000%
Sulfur (S) .....	1.5000%
Boron (B) .....	0.0200%
Cobalt (Co) .....	0.0005%
Copper (Cu) .....	0.0500%
Iron (Fe) .....	0.1000%
Manganese (Mn) .....	0.0500%
Molybdenum (Mo) .....	0.0005%
Sodium (Na) .....	0.1000%
Zinc (Zn) .....	0.0500%

### Derived From:

Chicken Manure, Liquid Fish, Urea, Anhydrous Ammonia, Cobalt Sulfate, Copper Sulfate, Ferrous Sulfate, Manganese Sulfate, Molybdenum Oxide, Sulfate of Potash, Potassium Chloride, Sulfuric Acid, Boric Acid and Zinc Sulfate.

\*Slow Release Nitrogen from Chicken Manure

### ALSO CONTAINS NONPLANT FOOD INGREDIENTS

### Mycorrhizal spore species:

Glomus intraradices	0.86 propagules per gram
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MADE IN USA





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# A BIOTIC REVOLUTION

## Proven Benefits of the Most Advanced, Science-Driven Biotic Fertilizers in the World!

National Organic Program approved formulations – *Growing lawns and gardens to their full potential*

### Primary Nutrients

Nitrogen  
Phosphate  
Potash

### Secondary Nutrients

Calcium  
Sulfur  
Magnesium

### Trace Minerals

Boron  
Chlorine  
Cobalt  
Copper  
Iron  
Manganese  
Molybdenum  
Sodium  
Zinc

### Amino Acids

Aspartic Acid  
Theronine  
Serine  
Glutamic Acid  
Proline  
Glycine  
Alanine  
Cystine  
Valine  
Methionine  
Isoleucine  
Leucine  
Tyrosine  
Phenylalanine  
Histidine  
Lysine  
Arginine  
Tryptophan

### Vitamins

B-6  
B-12  
Biotin  
Folic Acid  
Niacin  
Pantothenic Acid  
Riboflavin  
Thiamine  
Vitamin E

### Enzymes

Auxin Group  
Zeatin

### Fish Oils

Omega 3  
Omega 6  
Omega 9  
Eicosapentaenoic acid (EPA)  
Docosahexaenoic acid (DHA)

