

BIOSOL®

GENERAL DESCRIPTION

MANUFACTURE:

During the manufacture of penicillin, a fungal biomass (mycelium) is obtained by the fermentation of raw materials such as: soybean meal, cottonseed meal, sucrose, lactose, trace elements and vitamins under constant sterile conditions. The fungus strain used is *Penicillium Chrysogenum*. After the penicillin is removed, the remaining biomass is dried at 110 to 130° C for 3 to 4 hours. During this process the residual antibiotic is eliminated, and the moisture is reduced by 3 to 6%. Finally, the mixture is granulated and placed in 50-pound recyclable bags.

Biosol is listed with OMRI and approved for organic farming.
Biosol is a Fermented Plant Based Organic Fertilizer sterilized and free of weed seeds.

COMPOSITION:

95% fungal biomass (dry mycelium), 5% water.

NUTRIENT RATIO:

N-P-K = 6-1-1

Specifications:

Guaranteed Analysis:

Total Nitrogen (N).....	6%
WATER SOLUBLE NITROGEN 0.50%	
WATER INSOLUBLE NITROGEN* 5.50%	
Available Phosphate (P ₂ O ₅).....	1%
Soluble Potash (K ₂ O).....	1%

Nutrients Derived from: Fermented Cottonseed Meal and Soybean Meal

Organic Matter:	> 93%
Carbon/Nitrogen Ratio.....	5:1
pH level.....	4.0
Particle Size	2-3mm

Biosol does not contain any Animal by-products or any chemicals.
Any heavy metal contents are within the tolerance limits for animal feed.

Properties:

Biosol's beneficial fungal biomass enhances soil health and microbial life. This unique slow-release nutrient formulation provides vital plant nutrients throughout the entire growing season due to the fermented organic material. There is an increased effect on the formation of humus, root mass, and the living microbial biomass in the soils. Promoting a healthy balance of microbial life ensures the long-term plant color and plant health. This results in far lower concentrations of nitrates or phosphorous in ground water than mineral fertilizers.

Safe to be used around pets, animals, children, lakes, and streams.

APPLICATIONS:

Organic Farming

Biosol will contribute to stronger and healthier crops while enhancing the vitality of your soil therefore producing higher crop yields in a natural way.

California Certified Organic Farmers, Inc. has approved and certified Biosol for use in organic farming. It has also been approved for organic farming in Washington, Oregon and Massachusetts.

REVEGETATION OF DISTURBED SOILS WITH LOW HUMUS CONTENT:

Mining Reclamation, Road Cut Revegetation, High Altitude Revegetation

- ❖ Biosol is used for both primary and secondary fertilization despite the soil quality.
- ❖ Biosol stimulates micro-organism activity in soils.
- ❖ It can be dry broadcasted or applied with a Hydroseeder. There is no appreciable difference in the results.

Application Rates: 800 – 2,000 lbs. Per acre.

Viticulture (cultivation of grapes)

Biosol has been used all over the world for several years with superior results. During thirteen years of experiments and trials from 1988 – 2001, Biosol was proven to increase sugar yields in grapes. The average yearly sugar yield increased by approx. 13%.

Application rate: 600-900 lbs. Per acre

Forestry

Biosol has been used and tested by Forestry Services and Departments all around the world.

Application Rates:	Young Trees	3 oz. Per plant
	Mature Trees	6 oz. Per 3 ft. of tree height

Golf Courses

The lasting efficiency of Biosol is particularly advantageous. First year applications should always be the heaviest. Application rates after the first year may be reduced.

Application Rates: 2000 lbs. Per acre for fairways per year.
1000 lbs. early spring, 1000 lbs. late fall.

Lawns, Gardens, Flowers, Trees, etc.

Biosol will not burn vegetation but should be watered in (if possible) for the best results. Biosol was originally sold as a feed for livestock and fish; therefore, it is safe to apply in areas where animals and children may play.

Application Rates:

Lawns and Playing Fields:	12 -15 lbs. Per 1,000 sq. feet twice a year
Garden Preparation:	2 oz. Per sq. yard (1/3 cup)
	1 1/3 lbs. Per 100 sq. feet (3 3/4 cups)
Potted Flowers and Compost:	1/2 oz. Per gallon (1/8 cup)
Vegetables:	1 1/2 oz. Sq. yard (3/4 cup)
Ornamental Trees, Shrubs:	6 oz. Per sq. yard (1 cup)

Fertilizing young plants:

Good & Proper Farming Practices should always be followed when using Biosol. It is very important that Biosol is spread on the soil surface. If you want to plant young plants add Biosol to the soil at least two weeks before planting occurs. This is especially important with Tomatoes and Peppers.

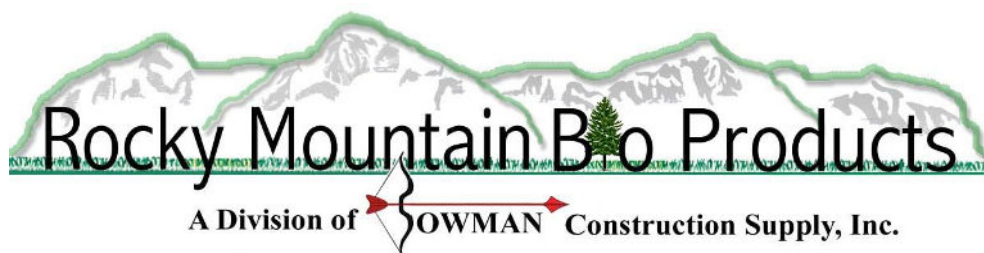
Biosol is employed for the following properties:

- Stimulates micro-organism activity in the soil.
- Biosol improves plant health (chlorosis, stem disease, blossom drop).
- Increases crop yields.
- It promotes quality ripening of fruits and vegetables.
- It increases the sugar content (sugar content expressed as degree Brix or Balling).
- Biosol should always be applied topically.

Unlike many natural fertilizers, Biosol is easy to transport and use. The product is packaged in sturdy plastic bags, which may be recycled (4). Biosol is granulated and suitable for all standard application methods, including hydro-seeding. Biosol will not burn seed or existing vegetation.

OUR DISTRIBUTION CENTERS:

- ◆ California
- ◆ Colorado (Denver, Colorado Springs, Longmont)
- ◆ Idaho
- ◆ Iowa (Des Moines)
- ◆ Kansas (Kansas City)
- ◆ Maine
- ◆ Missouri (St. Louis)
- ◆ Minnesota
- ◆ Nebraska (Omaha)
- ◆ New Hampshire (Concord)
- ◆ New York
- ◆ North Dakota
- ◆ Oregon (Portland)
- ◆ South Dakota
- ◆ Texas
- ◆ Utah
- ◆ Washington (Seattle, Spokane)



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