ECOCHEM ~ ORGANIC SOIL BUILDER

EC-BSB
Organic Soil Builder

SOIL RECLAMATION
NATURAL ORGANIC FERTILIZER RESTORES SOIL FERTILITY

Synthetic chemicals destroy soil biomass and, over time, deplete the soil. When soil is depleted there are two methods for restoring its fertility. (1) It can be left idle for several years allowing it to rebuild naturally or (2) organic matter, in the form of crop residue, together with microbial based inoculants can be applied to the soil to accelerate the restoration process. Microbial based inoculants, formulated with beneficial microbes, stimulants and nutrients, can play a vital role in restoring depleted soil and maintaining long term soil fertility. Beneficial microbes (1)decompose organic matter (crop residue) and turn it into humus (2) produce $C0_2$, organic acids and enzymes necessary for chelating key nutrients (3) aid in nitrogen fixation (4) produce compounds including vitamins and plant hormones that improve plant health and contribute to higher crop yield. (5) protect plants against pathogens and (6) produce compounds that stimulate the natural defense mechanisms of plants.

WHAT IS EC-BS
EC-BSB is an organic soil inoculant for use in rebuilding depleted soil. EC-BSB is formulated with complex carbohydrates, humic acid, minerals, amino, acids, biological nutrients and stimulants. The components in EC-BSB are selected for their effectiveness in decomposing organic matter. EC-BSB aids in restoring a healthy balance to the soil.

HOW EC-BSB WORKS
When EC-BSB is activated in an environment in which essential nutrients are present, it stimulates soil biomass and accelerates the natural biological process and provide optimized degradation of the biodegradable component in crop residue and other organic matter. The degradation process is regulated by temperature, moisture, material disturbance, organic matter and the size and activity of microbial populations.

BENEFITS
- High in beneficial soil microbes, nutrients, micronutrients, trace minerals and vitamins.
- 100% soluble in water - easy to apply.
- Aids in increasing soil biomass.
- Suppresses soil and root pathogens.
- Neutralizes residual herbicides and pesticides.
- Aids in reducing fertilizer requirements.
- Reduces dependence on chemical applications.
- Aids in reducing the need for fungal products.
- Promotes healthy plant growth.

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SPECIFICATIONS
Form: Liquid
Color: Brown
Nutrient Content: Biological nutrients & stimulants
Plate count: 10 Billion/Litre

TYPICAL APPLICATION RATES
1 to 2 litres/ acre depending on the type and amount of crop residue.

APPLICATION NOTE
Increasing application rate can provide additional benefits. Avoid pesticide applications within 48 hours of applying product. Best applied in the early morning, evening or on a cloudy day.

SAFETY
EC-BSB is produced in accordance with NOSB (National Organic Standards Board) guidelines. The materials used in the production process are derived from naturally occurring and sustainable sources and are consistent with organic principals and the National List of Allowed Substances. EC-BSB does NOT contain synthetic chemicals, animal components, animal byproducts, manure or manure byproducts. EC-BSB is environmentally safe and is not harmful to animals, plants and humans.

COMPLIANCE
Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:
a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
b) 40 CFR Sections 704.3. 710.2(e) and 720.3(c); and
c) Sections 5 and 13, reference 42FR64583
d) Does not contain marine pollutants as defined in 49 CFR 171.8.

PACKAGING
1 Litre HDPE Jugs
4 Litre HDPE Jugs
20 Litre HDPE Pails
208 Litre HDPE Drums

STORAGE & HANDLING
Store in a cool location away from direct sunlight - No special handling required - See MSDS

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ECOCHEM

SOIL BUILDER FIELD TEST RESULTS

Nitrogen is a plant stimulator, regulator and a carrier of elements. For plants to benefit from nitrogen, the elements must first be mineralized. This mineralization is carried out by microbes that metabolize nitrogen, turning it into nitrite and then to nitrates. Feeding the soil with organic matter and biological nutrients will stimulate microbial activity and significantly improve the N.P.K. exchange. During the growing season plants fix carbon dioxide by photosynthesis. Around 20 to 25 percent of this fixed carbon is returned to the soil through plant roots. Sustainable Agriculture involves not only the physical properties and mineral structure of the soil, but also the process by which organic matter is transformed into humus by microbes, fungi, earthworms etc. Incorporating crop residue and other organic mater into the soil promotes microbial growth which in turn promotes humus production and soil fertility.

Crop Year: 2004
Crop: Cabbage
Grower: J. Montano
Fertilizer: Biological Soil Builder
Humic Acid
CB-FVR

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