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HB-101® *Natural Plant Vitalizer*

What is HB-101?

HB-101 - From Mother Nature Herself

HB-101 is a liquid that is specially processed by blending the extracts of cedars, pines, cypress trees and plantains. Cedars, pines and cypresses are long-lived trees with powerful deodorizing power. The saps and secondary metabolites of these trees are responsible for maintaining the health and longevity of the trees. Plantains are known to have medicinal qualities and have long been used for various human medications.

HB-101 is a purely natural extract derived from the portion of a plant that is most important in the development process. HB-101 is a growth nutrient for plants, flowers and crop production and it is not a chemical fertilizer. HB-101 is a 100% organic product, safe for plants and animals, and designed to benefit the earth's environment while reducing the demand for costly fertilizers. HB-101 is formulated and bottled in a ready-to-dilute solution for easy and immediate use.

The Features of HB-101

- 100% organic and natural
- Non-toxic
- Easy-to-use
- Effective on all plants
- Concentrated for long shelf life

The Materials of HB-101

Cedars, pines, cypress trees, and plantains are the raw materials used in manufacturing this product. Extracts from these plants and trees are refined and blended to produce a highly concentrated formula beneficial to virtually all phases of plant propagation and cultivation.

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The Components of HB-101

Raw Materials (Natural)

- Cedars
- Cypresses
- Pines
- Plantains

Mineral Analysis

- Sodium- 155.3mg/gallon
- Calcium- 125mg/gallon
- Iron- 6.8mg/gallon
- Magnesium- 12.5mg/gallon
- Silicon- 28mg/gallon
- Cadmium- 0
- Arsenic- 0

PH Balance

- HB-101 (concentrate) pH 4.0
- HB-101 (1000X dilution) pH~6.5

Safety of HB-101

- Acute Toxicity (Rat)- LD50=60g/kg (non-toxic)
- Long Term Toxicity- no effect on livestock, poultry, fish

Is it a fertilizer? Classification of HB-101

HB-101 is neither an agricultural chemical nor a fertilizer. It is an all-natural solution that supports healthy plants. Hence, HB-101 is referred to as a plant vitalizer, or plant growth enhancer.

How does it affect leaves? Development of Leaves with HB-101

Plants need the sunlight, air (carbon dioxide and oxygen), water and soil (minerals and micro-organisms) to grow. If the delicate balance of these elements is not maintained, growth is slowed or stopped.

Sunlight and carbon dioxide are absorbed into the plant's system through its leaves, where photosynthesis produces glucose and other nutrients necessary for survival. When HB-101 solution is sprayed onto foliage and applied to the soil, the plant absorbs necessary nutrients from the soil. These nutrients are combined with ionized calcium and sodium from HB-101 and absorbed into the leaves' cells, thereby strengthening the cells and increasing photosynthetic efficiency. This results in greener leaves and stronger, healthier plants.

How does it help in stem and root development? Effect of HB-101 on Development of Stem and Roots

The main function of the roots and stem of a plant is the absorption and transportation of water and other nutrients. Healthy leaves depend on healthy roots. Water and nutrients, especially calcium, are necessary for the development of leaves and roots, but many minerals cannot be absorbed into the plant's system in their solid form.

These minerals have to be converted to an ionic state in order to be easily absorbed through the roots, and this is done by micro-organisms living in the soil. By applying HB-101, which itself contains ionized minerals, the activity of these micro-organisms is enhanced, insuring that the necessary balance of nutrients is maintained. The result is stronger root systems, capable of storing sufficient quantities of the plant's energy sources, such as glucose. In addition to these essential ionized minerals, HB-101 contains significant quantities of saponin, a metabolite which replenishes micro-organisms with oxygen.

The stem is the pathway by which nutrients are transported to and from the leaves and roots, and it is also the backbone of the plant. Solid cell membranes are required for this function. Healthy cells and sufficient nourishment result in the smooth distribution of carbohydrates, which are necessary for strengthening cell membranes. With the introduction of HB-101, nutrient flow from the leaves and roots is maximized, contributing to the healthy development of the stem.

Does it help in conditioning of the soil? Soil Conditioning with HB-101

Soil should be soft and contain a good balance of water and air, and should allow good drainage after rain or irrigation. It should also maintain proper moisture even during sunny weather and should be neutral to mildly acidic. In such conditions, the balance of micro-organisms in the soil will be favorable. However, factors such as acidic rain, agricultural chemicals, and repeated cultivation can harm the soil and stunt the growth of the essential micro-organisms.

With HB-101, the propagation and proper balance of these micro-organisms can be maintained.

Is it harmful to my pets and other animals? Effect of HB-101 on Harmful Creatures

As stated, HB-101 is a product that is safe on living creatures. Therefore, it is not an insecticide. Plants have natural defense mechanisms, similar to the immune system of humans. However, if a plant is not in optimum condition, its immune system will not be as effective, and hence vulnerable to attack by harmful insects. By improving the plant's immune system, HB-101 will help remedy this.

In Conclusion...

HB-101, an extract manufactured entirely from renewable resources, and without the use of chemicals, serves as a nutrient and vitalizer for the plant itself. It works to improve the growth processes and immune functions of the plant by helping it to attain its original, optimum potentials.

We at Yasuko Flora BV believe that healthy plants should require no agricultural chemicals or synthetic fertilizers to thrive. When used as directed, HB-101 can help to reduce over-fertilization and the unnecessary use of chemicals, and result in a safer, healthier environment for all living things.

HB-101 - Directions for Regular Use

HB-101 is highly concentrated and must be diluted with water before applying to plants. HB-101 is commonly used at ratios of 1/1,000-1/100,000 parts HB-101 to water, depending upon frequency of application (i.e. stronger dilutions for infrequent use, weaker dilutions for frequent watering.)

- (1) For houseplants and shade-loving plants (orchids, african violets, begonias, etc.) mix 1/8-1/4 teaspoon HB-101 to one gallon of water and apply 1 - 2 times per week as both spray and drench.*
- (2) For fruit trees, vegetables and sun-loving plants (i.e. roses) mix 1/4 - 1/2 teaspoon HB-101 to one gallon of water. Apply 1 - 2 times per week as both spray and drench.*
- (3) For cut flowers add 1 - 2 drops of HB-101 per quart of vase water to keep water fresh and preserve flowers.
- (4) For aquatic plants use 1 - 2 drops HB-101 per gallon of water to promote growth and keep water fresh. (In such concentrations HB-101 will not harm fish or other aquatic creatures.)

** For optimum results, continue feeding plants at regular intervals with organic fertilizers, reducing quantities substantially as HB-101 begins to take*

Tips for Using HB-101

Note: 1/1,000 dilution ratio is the strongest recommended application rate. HB-101 is most effective when mixed with water only, but may be combined with other fertilizers and soil amenders. However HB-101 can not be used with petroleum-based fertilizers or alkaloids(such as gypsum or lime). Please use HB-101 as soon as possible after diluting as efficacy may diminish over time.

Measuring and mixing HB-101:

*1/2 teaspoon to one gallon = 1/1,600 dilution

*1/2 teaspoon = 2.5cc

*For most applications, 1/1,000 (about 2/3 teaspoon to one gallon) is the strongest recommended solution.

*Use HB-101 as soon as possible after mixing as potency will diminish over time.

Applying HB-101:

* Condition soil before planting by applying 1/1,000 dilution of HB-101 once or twice. Be sure to drench soil thoroughly.

* Foliar feeding is best done early in the morning. Spray undersides of foliage as well as tops for optimum results.

* Cut back on fertilization as plant health improves.

More details..... See: 'HB-101 General Usage Guidelines'

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HB-101 General Usage Guidelines

Rice

Rice & Other Grains

Soil Conditioning



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water once to three times between harvest and planting.

Germinating Seeds



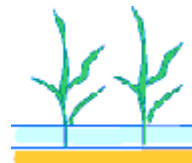
Soak seeds in HB-101 diluted to 1/1,000 parts water over 24 hours

Seedlings



Spray HB-101 diluted to 1/1,000 parts water directly on to seedlings once a week for three weeks.

In the field



Spray HB-101 diluted to 1/1,000 parts water on leaves at least twice but five times is the strongest recommended frequency. You may also pour 20-100cc of HB-101 diluted water per 1/4 acreage at the

field directly more than five times. Spray it from helicopter would be an option.

Bulb, Root-vegetables

Tulip, Lily, other flowers with bulbs & Potatoes, Carrots, Burdocks, etc.

Soil Conditioning



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water once to three times between previous harvest and planting.

Soak Bulbs/Roots



Soak bulbs/tubers in HB-101 diluted to 1/1,000 parts water for one to thirty minutes.

After Planting Prior Harvest



Irrigate soil and spray foliage with HB-101 diluted to 1/1,000-1/100,000 parts water once in three days to two weeks.

Beans

Soybeans, Adzuki, Kidney, Broad, etc, Beans

Soil Conditioning



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water once to three times between previous harvest and planting.

Germinating Seeds



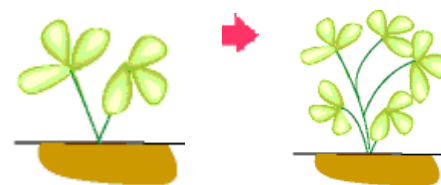
Soak seeds in HB-101 diluted to 1/1,000 parts water for ten seconds.

Seedlings



Spray HB-101 diluted to 1/1,000 parts water directly on to seedlings once a week for three weeks.

After Planting Prior Harvest



Irrigate soil and spray foliage with HB-101 diluted to 1/1,000 to 1/100,000 parts water once in three days to two weeks.

Leafy Vegetables

Cabbage, Lettuce, Spinach, Nappa, Hakusai

Soil Conditioning



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water once to three times between previous harvest and planting.

Germinating Seeds



Soak seeds in HB-101 diluted to 1/1,000 parts water for three hours.

Seedlings



Spray HB-101 diluted to 1/1,000 parts water directly on to seedlings once a week total

After Planting Prior Harvest



Irrigate soil and spray foliage with HB-101 diluted to 1/1,000-1/100,000 parts water once in three days to two weeks.

three
times.

Flowers

Chrysanthemum, Eustoma Grandiflorum, Roses, Carnation, Sweet pea, etc.

Soil Conditioning



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water once to three times between previous harvest and planting.

Germinating Seeds



Soak seeds in HB-101 diluted to 1/1,000 parts water for 12 hours.

Seedlings



Spray HB-101 diluted to 1/1,000 parts water directly on to seedlings once a week total three times.

After Planting Prior Harvest



Irrigate soil and spray foliage with HB-101 diluted 1/1,000 to 1/100,000 parts water once a week throughout.

Bonsai

Pine, Azalea, Oak, Others



Irrigate soil and spray foliage with HB-101 diluted to 1/1,000 to 1/10,000 parts water once in one to ten days throughout a year.

Hydroponics, Rock wool bedding



Use HB-101 diluted to 1/100,000 parts. Spray foliage with 1/1,000 to 1/10,000 parts HB-101 dilution once a week.

Tea Leaves



Irrigate soil and spray foliage with HB-101 diluted to 1/1,000 to 1/100,000 parts water once or twice a month.

Trees

**Cedar, Cypress, Pine,
White birch, Oak, Maple,
etc.**



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water, and spray on foliage with HB-101 1/1,000 to 1/10,000 parts water once in one to thirty days. Bi-weekly basis application is common.

Fruit Tree

**Grape, Cherries, Pears,
Apples, Tangerine,
Kiwis, Oranges, Plums,
Peaches, Persimmons,
etc.**



After harvest for six-month period, irrigate HB-101 diluted to 1/1,000 to 1/100,000 parts water once a month. Prior harvest for six months, irrigate HB-101 diluted at 1/1,000 to 1/100,000 parts water twice a month. And spray on foliages with HB-101 diluted to 1/1,000 to 1/10,000 parts

King size potted Chrysanthemum



Irrigate soil and spray on leaves with HB-101 diluted to 1/1,000 to 1/10,000 parts water once a week.

To Revitalize Dying Tree



Directly apply HB-101 diluted at 1/50 parts water into the hole drilled at 45degree angle downward the center of the tree.

Potted Foliage

Orchid, Rose, Camellia, Cyclamen, Bamboo, Other ornamental and potted Foliage plants.



Apply HB-101 at a dilution of 1/1,000 to 1/10,000 parts water once in one to ten days throughout a year both as soil irrigation and foliar spray. Once a week is standard application.

Grass, Lawn



Irrigate soil with spray over the grass with HB-101 diluted to 1/1,000 to 1/100,000 parts water once to twice a month during winter and three to four times during spring, summer and autumn.

Vegetables and fruits

Tomatoes, Strawberries, Melons, Cucumbers, Green Peppers, Watermelons, Eggplants, etc.

Soil Conditioning



Irrigate soil with HB-101 diluted at 1/1,000 to 1/100,000 parts water once to three times between previous harvest and planting.

Germinating Seeds



Soak seeds in HB-101 diluted to 1/1,000 parts water for twelve hours..

Seedlings



Spray HB-101 diluted to 1/1,000 parts water once a week total three times.

After transplanting prior harvest



Irrigate HB-101 diluted to 1/1,000 to 1/100,000 parts water once a week and spray foliage with HB-101 diluted to 1/1,000 to 1/10,000 parts water once a week to twice a month.



Soak roots of seedlings in diluted HB-101 at 1/3,000 parts water for 5 seconds prior to transplanting.

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The voices of HB-101 Users

- Harmless to human beings, animals and soil.
- Flowers, leaves and fruits become shiny and good style.
- Noxious insects and bad fungi are almost away from plants.
- Fresh and delicious taste of fruits, vegetables and cereals.
- Crop increases more than 30%.
- Freshness after harvest becomes more than twice longer.

- *Problems about acid rain and acid mist can be solved.*
- *Troubles with repeated cultivation of the same plant on the same ground don't occur.*
- *Degree of sweetness increases from 1 to 8 degrees.*
- *The plants vitalize....More Bigger, Tighter, Heavier and Earlier!*
- *You can cut down expense and gain more income.*

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