ARMORY SP

Beneficial Bacillus Blend

CONTAINS NON-PLANT FOOD INGREDIENT

Bacillus subtillus	.....4.0 X 10^9 cfu/g
Bacillus amyloliquefacaens	.....4.0 X 10^9 cfu/g
Bacillus licheniformis	.....4.0 X 10^9 cfu/g
Total *Bacillus*	.....1.2 X 10^{10} cfu/g
*Streptomyces gris*eus	.....2.0 X 10^7 cfu/g

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

Manufactured
and guaranteed by:
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BLACKSMITH BIOSCIENCE

Net Weight: 2 oz, 16 oz and 12.5 lbs

Intended Uses: Armory SP is a high concentration of several select *Bacillus* and *Streptomyces* bacteria that, when applied, will increase the beneficial microbial population of soils.

Compatibility: Armory SP can be tank mixed with chemical and fertilizers as well as other biologicals. Avoid tank mixing with copper sulfate pentahydrate, sulfur and hydrogen peroxide type products.

APPLICATION DIRECTIONS:

For residential use or smaller quantities

Foliar Spray and Soil Drench: Use 0.25 -1 teaspoons of product per gallon of water as general dilution. Apply as a foliar spray or soil drench applications.

Reservoir Application: Use 0.25 - 2 teaspoons per gallon of reservoir. Reapply each time reservoir water is changed.

Greenhouse/Nursery

Soil Drench: Dissolve 1-8 oz per 100 gallons of water and apply to soil as a normal drench (soak pot until growing media is saturated without creating runoff).

Foliar Spray: Dilute 1-8 oz per 100 gallons and apply as a heavy spray allowing for initial run-off. Reapply every 2-12 weeks

Soil Incorporation: Use 1-2 oz per cubic yard of soil or growing media. Blend evenly into growing media via spray, dry blender, or any other appropriate method.

Outdoor Agriculture Production

Soil Application: Apply 1-6 ounces per acre. Apply Armory to the soil as a drench, through irrigation, at transplant or other means to move the product to the plants root system.
Reapply every 1-8 weeks.

Foliar Application: Use 1-6 ounces per acre. Dissolve in appropriate amount of water and apply as a foliar spray to plants leaves until wet to run off. Reapply every 7-28 days.

In Furrow Application:
Use 0.5 -6 oz of Armory SP per acre applied over the seed or as a side dressing during furrow application.

Hydroponic Systems: Use 1-6 oz per 100 gallons of tank water. Dissolve into reservoir before, with or after adding nutrients. Reapply Armory SP each time reservoir water is changed.

Turf: Apply 8-16/acre, dissolved in water, for the initial application. Apply as a foliar spray or soil application. Repeat at 8-oz per acre every 4 weeks throughout the growing season.

Composting: Dissolve 1-2 oz of Armory SP into 100 gallons of water to create solution. Apply solution to compost at a rate of 100 gallons per 40 cubic yards of soil.

Compost Teas: Add 0.25 – 1.00 tsp (1-4 g) of Armory per gallon of final compost tea solution. If

creating compost tea, add Armory after the process is complete and just prior to application.

Bed, Field or Row Preparation: Apply 1-4 ounces per acre. Apply Armory SP to the soil during tilling, bed preparation or at any time before, during or after planting or harvesting. Apply so the product is moved into the area of the soil where decomposition is needed by tilling in or spraying in heavy.

SEED APPLICATION INSTRUCTIONS

Seed Spray or Slurry Coating: Apply this product through mist-type commercial seed treatment equipment, slurry or other comparable methods that provide thorough coverage of treated seed. Prior to planting, dissolve 1-6 oz. of product in 1-4 oz of water per cwt of seed and spray directly on seed.

Hopper Box Dry Coating: Apply directly to seed as a dry coating at a rate of 1-6 oz per cwt of seed. Apply as to insure even coating on seeds.

Post Fumigation Application: To rebuild the microbial population in fumigated soils, apply 4-16 oz of Armory SP per acre through irrigation directly to the area fumigated. Apply product during or just after transplant. Reapply every 2-8 weeks as needed throughout the growing season.

Crops On Which Armory SP May Be Used:

Legume vegetables Succulent and dried beans and peas such as green, snap, shell, and Lima beans, garbanzo beans, chickpeas, soybeans, dry beans, peas, split peas, lentils, and other legumes, in- cluding those grown for seed production
Oilseed crops Canola, castor, coconut, cotton, flax, oil palm, olive, peanut, rapeseed, safflower, sesame, sunflower, soybeans, and other oilseed crops, includ- ing those grown for seed production
Cucurbit Vegetables: Cucumbers, melons, gourds, squash, cantaloupe, and other cucurbits
Fruiting Vegetables: Eggplant, sweet peppers, hot peppers, tomatoes, tomatillos and other fruiting vegetables
Herb, Spices & Mints: Sage, rosemary, thyme, mint, peppermint, dill, basil, oregano, medicinal herbs and other herbs and spices
Leafy Vegetables & Cole Crops: Asparagus, broccoli, Brussels sprouts, cabbage, cauliflower, celery, collards, endive, kale, kohlrabi, lettuce, mustard greens, parsley, spinach and other leafy vegetable crops
Legume & Vegetable Crops: Snap and dry beans, lentils, succulent and dry peas, peanuts, soybeans and other legume/vegetable crops
Small Grains:
Rye, rice, sorghum, millet and other small grains
Root Tuber & Bulb Crops: Garlic, onions, potatoes, sweet potatoes, carrot, ginger, ginseng, horseradish, turnip, beets, radish and other root-tuber/bulb crops
Berry Crops: Blueberries, blackberry, raspberry, loganberry, huckleberry, gooseberry, elderberry, currant, caneberry and other berry crops
Citrus Orange, grapefruit, lemon, tangerine, tangelo, lime, pummelo and other citrus crops
Corn Field corn, sweet corn, popcorn, sileage corn, seed corn, and other corn crops
Grape Wine grapes, table grapes, raisins and other grape crops
Pome Fruit Apple, crab apple, pear, quince, mayhaw and other pome fruit
Stone Fruit Apricot, cherry, nectarine, peach, plum, prune and other stone fruit
Tree Nuts Almond, pistachio, pecan, walnut, filberts and other tree nuts
Nurseries, Greenhouses, Shadehouse and Ornamental Plants Indoor, outdoor, and shade or other cover grown ornamental trees and shrubs, flowering plants, foliage plants, tropical plants, potted plants, potted or cut flowers, bedding plants, forestry seedlings, conifer production for reforestation, fruit trees, vegetables and other crops grown in greenhouses or nurseries
Turf Grass Turf, sod, lawns, golf course (fairways, roughs, greens, tees), grass seed production Including but not limited to: Bluegrass, Bentgrass, Bermudagrass (common & hybrid), Dichondra, Fescue, Orchardgrass, *Poa annua*, St Augustine grass, Ryegrass, *Zoysia*, mixtures, and other grasses or ornamental turf
Other Crops Bananas/ plantains, tobacco, hops, watercress, mushrooms, ginseng, coffee, olives, green leafy plants and all crops grown for seed
Tobacco
Strawberry
Tropical Fruits: Avocado, mango, papaya, banana, pineapple, papaya, carambola, star fruit and other tropical fruits

STORAGE AND DISPOSAL

Storage: Do not store in extremely high temperatures (above 130F).
Disposal: Completely empty container. Then dispose of empty bag in a sanitary landfill or by incineration or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Limited Warranty / Disclaimer: Blacksmith BioScience LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use, timing and method of application, weather, watering practices, nature of soil, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. No other express or implied warranty of the fitness or merchantability is made