

Manage™ Application Rates

Manage AGRICULTURE APPLICATIONS		
CROPS	METHOD OF APPLICATION	APPLICATION RATE (US / Metric)
Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha every two to four weeks through growing season.
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
Bulb Vegetables: Garlic, Leeks, Onions, Shallots, Ornamental Bulbs	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
Cereal Grains: Buckwheat, Corn (grain, seed, sweet corn, silage, popcorn, high oil), Rye, Wheat, Sorghum, Millet, Oats, Alfalfa	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
Citrus Fruits: Citrus Hybrids, Grapefruit, Kumquat, Limes, Oranges, Pummelos	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha monthly through drip or microjet.
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.
Conifer Tree Seedlings, Conifer Trees:	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.
Cucurbit Vegetables: Cucumbers, Melons, Musk Melons, Gourds, Pumpkins, Squash	Pre-plant Application	For application when preparing seed bed – Inject 10 oz - 20 oz of product per acre / 772 g – 1544 g of product per ha through drip or with pre-plant herbicide.
	At-plant Application	Apply 10 oz of product per acre / 772 g per ha with transplant water
	Fertigation	Apply 4 oz – 8 oz of product per acre / 309 g – 618 g of product per ha through drip.
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha

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Fruiting Vegetables: Eggplant, Sweet and Hot Peppers, Tomatillos, Tomatoes	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	At-plant Application	Apply 10 oz of product per acre / 772 g per ha with transplant water
	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
Herbs, Spices, and Mints:	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
Hydroponic Crops:	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Substrate Mix	Mix 8 oz per cubic yard / 250 g per cubic meter of substrate
Leafy and Brassica (Cole) Leafy Vegetables: Arugula, Celery, Chervil, Endive, Fennel, Lettuce (head and leaf), Parsley, Radicchio, Rhubarb, Spinach, Swiss Chard, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens Asparagus	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
Legume Vegetables (Succulent or Dried): Beans (soybean, snap, dry), Lentils, Peas	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
Oilseed Crops: Cotton, Canola, Safflower, Sunflower	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
Peanuts:	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha

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Pome Fruits: Pears, Quince, Apples	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.
Root and Tuber Vegetables: Beets, Sugar Beets, Carrots, Celeriac, Chicory, Horseradish, Parsnip, Radish, Salsify, Turnips Potatoes, Sweet Potatoes, Yams, Jerusalem Artichoke, Cassava, Ginger	Pre-plant Application	10 oz - 20 oz in 35 to 50 gals of water per acre / 772 g – 1544 g in 132 to 189 L of water per ha to allow soil saturation.
	In-Furrow	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Banded	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
Shadehouse and Outdoor Nursery Crops: Deciduous trees (Maple, Oak, ect.), Ornamentals, Grapes, Citrus, Pine	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.
Stone Fruits: Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.
Tree Nuts: Almonds, Beech Nuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Filberts, Hickory Nuts, Macadamia Nuts, Pecans, Pistachios, Walnuts	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.

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Tropical Fruits: Avocado, Mango, Papaya, Pineapple, Bananas, Plantains	Cuttings and Bare Root	10 oz - 20 oz in 50 gals of water / 772 g – 1544 g in 189 L of water for dipping.
	Fertigation	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Tank Spray Mix	Apply 4 oz – 20 oz of product per acre / 309 g – 1544 g of product per ha
	Greenhouse and Nursery	Pre-mix 8 oz to 10 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 618 g to 772 g in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray monthly.
	Transplant Drench	Dissolve 8 oz in 50 gals of water / 618 g in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 mL of finished product to 19 L plant material.

Amendment Application: Improves poor soil conditions, preparing the soil for plant development; Apply where soils have traditional pH issues, where soils have low CEC, where soils lack organic matter; where soils have lack of percolation, where soils have lack of water holding capacity.	Method of Application: <ul style="list-style-type: none"> ▪ Tank Mix – Mechanically Applied ▪ Fertigation ▪ Substrate Mix
At Planting Application: Populates the beneficial microbes in the rhizosphere where the root is first exposed to its growth environment. The environment where the critical plant – microbe symbiotic relationship is established; triggering germination; promotes faster and stronger rooting.	Method of Application: <ul style="list-style-type: none"> ▪ Cutting and Bare Root ▪ In Furrow ▪ Banded ▪ Transplant Drench ▪ Greenhouse and Nursery Application
Foundation Application: Apply at critical growth stages, supporting microbial growth patterns and populations allowing the beneficial microbial functions to continue to colonize the roots, improving root architecture, and rejuvenating soil structure.	Method of Application: <ul style="list-style-type: none"> ▪ Tank Mix – Mechanically Applied ▪ Fertigation ▪ Greenhouse and Nursery Application
Maintenance Applications: A continuation of supporting early stage applications; improve soil conditions, mineralize and hold nutrients, reinforcing the plant - microbial symbiotic relationship all the way through harvest.	Method of Application: <ul style="list-style-type: none"> ▪ Tank Mix – Mechanically Applied ▪ Fertigation ▪ Greenhouse and Nursery Application