



Fungicide, Bactericide, and Nematicide Liquid Concentrate

Tidal Grow® Spectra aids in the control of agricultural fungal diseases, bacterial diseases, viral diseases, and insect pests while boosting plants' natural defense mechanisms and stimulating growth and vigor.

Active Ingredient: Chitosan 5.75%
 Inert Ingredients: Vinegar, Water 94.25%
 Total100.0%

CONTENTS: □ 4 x 1 Gallon □ 2 x 2.5 gallon □ 265 gallon tote
 Contains 0.496 lbs chitosan/gallon Spectra weighs 8.62 lbs/gallon

CAUTION - KEEP OUT OF REACH OF CHILDREN

May cause eye and skin irritation. Avoid contact with skin and eyes. Wear safety glasses or goggles and chemical-resistant gloves when mixing or handling product. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Tidal Vision Products, Inc. DBA Tidal Grow® AgriScience
 3710 Iron Gate Road, Bellingham, WA 98226
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FOR USE IN U.S. EXCEPT FOR INDIANA AND MONTANA.



FIRST AID

IF INGESTED	Clean mouth with water and afterward drink plenty of water.
IF ON SKIN OR CLOTHING	Remove contaminated clothing. Rinse skin with soap and water.
IF INHALED	Remove to fresh air.
IF IN EYES	Rinse thoroughly with water for at least 15 minutes, lifting lower and upper eyelids. Remove contact lenses, if present, after the first 5 minutes.

STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal. Store in the original container in a cool, dry area away from children and pets. Do not reuse empty container. If empty: Offer for recycling if available or discard in a sanitary landfill. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

MANUFACTURED BY:
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This 25(b) product is exempt from registration with the Federal Environmental Protection Agency under FIFRA regulations.

PRODUCT INFORMATION: When used as directed, Tidal Grow® Spectra can improve plant vigor and quality, make plants more resistant to infection, reduce the negative effects of environmental stressors, and provide protection against pathogens including plant parasitic nematodes, diseases, bacteria, and insects.

TARGET PESTS:

Fungi and Oomycetes	Alternaria, Anthracnose, Armillaria, Aspergillus, Botrytis, Brown Rust, Cladosporium, Coleoptera, Colletotrichum, Curvularia, Downy Mildew, Fusarium, Macrophomina, Melanose, Monilinia, Phoma (onion pink root rot), Phomopsis, Phytophthora, Powdery Mildew, Pythium, Rhizoctonia, Sclerotinia, Sclerotium, Sooty Mold, Stromatinia (Brown patch), Tar Spot, Verticillium
Bacteria	Agrobacterium, Bacterial Blast, Clavibacter, Erwinia, Pectobacterium, Pseudomonas, Xanthomonas
Viruses	Mosaic viruses and Potato Virus X
Insects*	Aphids, Borers, Cereal Leaf Beetle, Colorado Potato Beetle, Corn Borers, Corn Earworm, Corn Root Maggots, Crickets, Thrips, Corn Rootworm, Diamondback Moth, Grasshoppers, Leaf Miners, Mealy Bugs, Mites, Pea Weevils, Plant Bugs, Pine Beetles, Psyllids, Slugs, Snails, Stink Bugs, Sugarcane Aphids, White Flies, Wireworms
Nematodes	Gall nematode (Anguina spp.), Guava nematode (Meloidogyne spp.), Potato cyst nematode (Globodera spp.), Reniform nematode (Rotylenchulus spp.), Root-knot nematode (Meloidogyne spp.), Root-lesion nematode (Pratylenchus spp.), Soybean Cyst Nematode (Heterodera spp.), Stem nematode (Ditylenchus spp.), Sting nematode (Belonolaimus spp.)

*Tidal Grow Spectra provides indirect control of insects by stimulating plant defense pathways (ISR) which deter insects from feeding on the crop and prevent insect pest populations from growing to infestation levels.

NOTE TO USER: Unintentional consequences such as crop injury may result due to environmental or growing conditions, manner of use, or application. Because plant tolerance of pesticides varies as conditions vary, treat a few plants under conditions expected to be encountered and observe for plant damage prior to full-scale application to a large number of plants.

Multi-state:
 SPC1USA.0225
 08.14.2025

DIRECTIONS FOR USE: ↓

APPLICATION RATES: →

Tidal Grow® Spectra can be used as a foliar spray, soil drench, root dip, in-furrow or can be applied via chemigation methods (such as center pivot, drip/trickle, sprinkler, etc).

Tidal Grow® Spectra can be applied to crops at any time during the growing season including preplant, preemergence, post emergence, and in-season, up to and including the day of harvest.

The recommended concentration and rate of application depends on crop and severity of the pest or disease. Test results have shown that this product can increasingly suppress pests and pathogens at high doses; whereas tests results have shown the benefits to plant health and vigor at lower doses.

For best results apply the product early in the morning or late in the afternoon.

Tidal Grow® Spectra is compatible with most chemical fungicides, insecticides and fertilizers. The pH of the final solution should be below 7 for best results; perform a compatibility jar test prior to mixing with other chemicals - especially for concentrated aerial applications. Combining Spectra with anionic polymers tends to cause clumping, gelling, or settling. Example: Spectra is incompatible with ammonium polyphosphate fertilizers (10-34-0 and 11-37-0). Contact your sales rep for more information on compatibility.

For best results, store out of direct sunlight at room temperature.

ENVIRONMENTAL HAZARDS

Not for aquatic use. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment wash waters.

IMPORTANT: Additional Operating Instructions for Chemigation for Washington State. Review your state and local regulatory requirements before applying any agricultural chemical through an irrigation system. Refer to the SUPPLEMENTAL LABELING FOR CHEMIGATION APPLICATIONS for additional use requirements and restrictions.



Scan the QR code for Supplemental Labeling for Chemigation Applications

Crop Grouping	Application Method	Application Timing	Rate	Comments
Soybeans	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as V3–V5	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as V3–V5	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
Corn (fields, sweet, popcorn)	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as V2–V4	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as V2–V4	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
Cereal Grains (non-corn, such as Barley, Wheat, Buckwheat, Rye, Millet, Oats, Rice, Sorghum, Triticale)	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 3–5 leaf stage	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as 3–5 leaf stage	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
Cotton	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
Roots/Tubers (such as cassava, potatoes, sweet potatoes, and yams)	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
Forests and Tree Farms (such as Christmas trees, natural forests, ornamental trees)	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
Citrus Fruits Grapefruits, Limes, Lemons, Oranges)	Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as bud formation	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as bud formation	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per acre. Re-apply once every 2 weeks or as needed.

Crop Grouping	Application Method	Application Timing	Rate	Comments
Berries & Small Fruit (such as Aronia Berries, Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Grapes, Huckleberries, Kiwifruits, Loganberries, Mulberries, Raspberries, Strawberries)	Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as budswell or budburst	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as budswell or budburst	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
Flowers - Greenhouse and Nursery (such as Shade and Flowering Tree Starts, Woody Ornamentals, Hemp, Ornamental Flowers)	Soil Treatment or Root Dip	During any growth stage	Apply 1 tsp of product per 1000 sq ft of canopy	Can be applied via spray chemigation, drip, or other means.
	Foliar Spray	Up to one week before harvest	Apply 2 tsp of product per 1000 sq ft of canopy	Use minimum spray volume to cover foliage. Spray tops and bottoms of leaves for best results.
Tree Nuts (such as Almonds, Beech Nuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Hazelnuts, Hickory Nuts, Macadamia Nuts, Pecans, Walnuts)	Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as bud formation	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as bud formation	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
Tree Fruits (non-citrus, such as Apples, Apricots, Avocados, Crabapples, Loquats, Nectarines, Oriental Pears, Peaches, Pears, Plums, Prunes, Quinces, Sweet Cherries, Tart Cherries)	Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as bud formation	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as bud formation	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
Vegetables (such as Artichokes, Broccoli, Brussels sprouts, Cabbage, Carrots, Cauliflower, Cucumber, Eggplants, Garlic, Leafy Vegetables, Onion, Pumpkin, Squash)	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
Legumes (non-soybean, such as Broad Beans, Chickpeas, Lentils, Peas, Pigeon Peas, Snap Beans, various Lupinus spp. beans)	In-Furrow or Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
	Foliar (aerial)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 2 gallons of total spray volume per Re-apply once every 2 weeks or as needed.
Turfgrass (such as SodFarms, Ornamental Lawns, Golf Courses) + Sugarcane (such as syrup canes, crystal canes, chewing canes)	Soil Treatment	At planting or pre-plant	Apply 6–22 fl oz of product per acre	Can be applied via spray, chemigation, drip, or other means.
	Foliar (ground spray, pivot, etc)	Starting as early as 14 days after emergence	Apply 6–22 fl oz of product per acre	Use at least 10 gallons of total spray volume per Re-apply once every 2 weeks or as needed.