

KITOGARD

MULTI-TARGET PLANT PROTECTION FROM ROOT TO LEAF

Nematicide, Fungicide, Bactericide and Root Growth Promoter

KitoGard delivers broad-spectrum protection against nematodes, fungi, bacteria, and viruses—while promoting strong root development and overall plant health. It works two ways: through direct contact that disrupts pests and pathogens and by triggering the plant's own defense system (SAR). The result? Healthier crops, reduced disease pressure, and improved yields.

**DIRECT
CONTACT
ACTIVITY**

**ACTIVATES
PLANT DEFENSE
SYSTEM**

**PROMOTES
ROOT
GROWTH**

**ENHANCES
BENEFICIAL
SOIL MICROBES**

TARGET PESTS

FOR USE ON ALL CROPS

Nematodes

Bacteria

Fungi and Oomycetes

Viruses

KEY FEATURES AND BENEFITS

- ✓ Direct activity towards foliar and root disease
- ✓ Proven 3-way nematode management
- ✓ Activates the plant's own natural defense system (SAR)
- ✓ Effective toward systemic pathogens and viruses
- ✓ Foliar, soil, and seed applications
- ✓ Prevent and reduce post-harvest rots – increase storage life



**FLEXIBLE
APPLICATION**



MRL EXEMPT



**SYSTEMIC PLANT
RESPONSE**



**0-HOUR REI
AND 0-DAY PHI**



**TANK-MIX
COMPATIBLE**



**BENEFICIAL
PREDATOR SAFE**



**ACTIVATES
PLANT DEFENSES**

RECOMMENDED USAGE AND RATES

DIRECTIONS FOR FOLIAR USE:

FOLIAR FUNGAL AND BACTERIAL DISEASE: 40-45 oz per acre prior to onset of disease

FRUIT SIZING AND QUALITY: 40-45 oz per acre beginning at early fruit cell division

ROOT GROWTH PROMOTION: 40-45 oz at plant, 2-3 true leaves, and 14-21 day intervals

NEMATODE AND ROOT DISEASE MANAGEMENT:

SOIL APPLICATIONS:

Field Vegetable Crops	Tree Nut, Fruit, and Vine Crops
128-192 fl oz - Prior to or at plant	128-192 fl oz - Applied at spring root flush
64-128 fl oz - 14-21 day sequential applications	64-128 fl oz - 15-30 days later

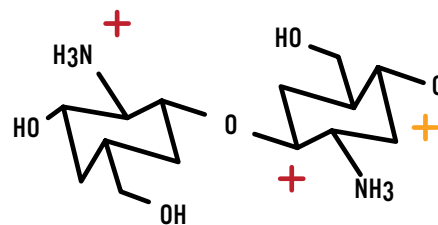
FOLIAR APPLICATIONS: 40-45 oz 14-21 day sequential applications

SPRAY SOLUTION: Acidic to neutral, with pH kept below 7

TANK-MIX COMPATIBILITY: KitoGard can be mixed with pesticides and fertilizers, except alkaline formulations

SURFACTANTS ARE NOT RECOMMENDED: The cationic charge of the product promotes electrostatic bonds to leaves

KITOGARD ACTIVE INGREDIENT



BIOCHEMICAL

CHITOSAN (POLY-D-GLUCOSAMINE)..... 2.3%

Degree of deacetylation (95%) and molecular weight (Medium- Low) Soft biological/ enzymatic deacetylation process producing a clean homogeneous chitosan. Specific formulation technology promotes the protonic electro-charging which adds unique characteristics.

MODE OF ACTION

● Direct contact ● Plant activation (SAR) ● Soil biology

NEMATOCIDE MULTI-PRONG

KitoGard works in three powerful ways to manage nematodes:

- It breaks down the outer shell of nematodes and their eggs in the root zone, stopping them before they can cause damage.
- It triggers the plant's natural defenses to break down and absorb nematodes within the roots and reduce their ability to reproduce.
- It enhances beneficial microbes that attack and destroy all nematode life stages including eggs in the soil.

FUNGICIDE/ BACTERICIDE

- KitoGard disrupts the cell walls of fungi and bacteria, making them unable to grow or spread. It also inhibits the growth of hyphae.
- It increases resistance to disease and stimulates the plant to produce natural compounds that help break down pathogens and protect healthy tissue.

VIRAL AND SYSTEMIC DISEASES

- KitoGard helps the plant recognize and respond to systemic infections by boosting the plant's immune response and reducing the virulence of viruses and disease within the plant.

WHAT IS SAR?

A "whole plant" immune response is called systemic acquired resistance (SAR). It's how a plant protects itself from pathogens, nematodes, and insects – similar to the immune system of humans. When one part of the plant senses an abiotic threat, it sends out a signal to the rest of the plant to:

- Make special protective compounds
- Turn on disease-fighting genes in other parts of the plant (*even parts not yet infected*)
- Increase resistance to disease and pests for a longer time

PRODUCTS LIKE KITOGARD HELP TRIGGER THIS NATURAL DEFENSE SYSTEM, GIVING THE PLANT LONG-LASTING PROTECTION AND HELPING IT BOUNCE BACK FASTER WHEN STRESSED.



LEARN MORE AT SYM-AGRO.COM

Important: Always read and follow label instructions.
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