

Integrated Pest Management Chemical Control Strategies



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Reduced Risk Products (2 of 2)

Natural / Essential Oils:

Pepper, citrus, clove, mint, oils. Caution as oils can burn. Herbicide properties.

Examples: Ecotec (o)

Phosphorous Acid

Different from P fertilizers, phosphorus acid has fungicide properties that are especially effective against

Oomycete pathogens, such as *Phytophthora*, *Phythium*, and Downy mildews.

Systemic properties.

Examples: Aliette, Fungi-Phite, Fosphite

Potassium Bicarbonate

Used as a contact fungicide mainly for powdery mildew in organic farming systems.

Examples: Armicarb (o), Kaligreen (o), Milstop (o)

Pyrethrin:

Derived from the blossoms of the pyrethrum flower, a chrysanthemum (contact). Breaks down in the environment quickly.

Example: Pyganic (o)

Reynoutria sachalinensis

Bio fungicide used to enhance plant health and trigger the plant's natural defenses to control fungal and bacterial diseases. Delays onset of disease through multiple modes of actions. Plant based extract with systemic properties.

Example: Regalia (o)

Spinosad

Derived from a bacteria in the soil. Kills by contact and ingestion. (Nerve and stomach poison)

Examples: Entrust (o), Radiant, GF-120 NF (o)

Spirotetramat

A new insecticide with a novel mode of action which interferes with lipid biosynthesis. It prevents molting and causes death of immature pest stages.

Example: Movento

Steinernema carpocapsae

Entomopathogenic nematodes are used as a biological control of insect pests.

Entomopathogenic nematodes only infect insects. Entomopathogenic nematodes live inside the body of their host and are most effective on soil dwelling insect pest.

Example: Nematac

Streptomyces lydicus WYEC 108

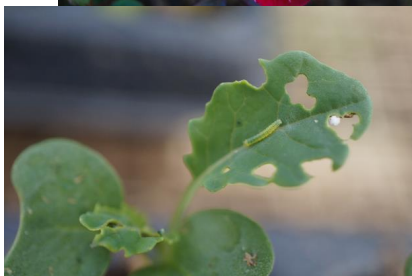
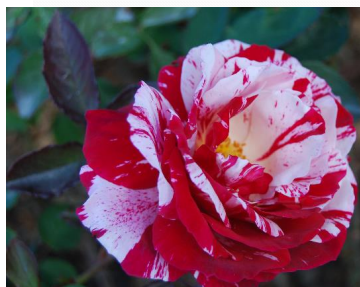
Beneficial bacterium that colonizes on the surface of the roots and leaves. It attacks many soil borne and foliar diseases via different modes of action.

Example: Actinovate (o)

Sulfur

Inhibits the attack of healthy plants by fungus disease by creating an environment that is not conducive to disease growth. Also effective on selected mites.

Examples: Sulfur DF (o), Kumulus DF (o)



NOTE: (o) Refers to products approved for organic production by the Organic Material Review Institute (OMRI).