



Directory of Microbial Pesticides for Agricultural Crops in OECD Countries



Revised October 2007



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

Directory of Microbial Pesticides for Agricultural Crops in OECD Countries

by

Todd Kabaluk and Katka Gazdik

Catalogue No. A42-107/2007E-PDF

ISBN 987-0-662-47103-5

Agriculture and Agri-Food Canada

Revised October 2007

This report is for reference only. Please read product labels carefully

Be aware that certain countries do not require efficacy testing

Please report errors or omissions to kabalukt@agr.gc.ca

TABLE OF CONTENTS

Introduction.....	4
The OECD and Pesticide Registration.....	5
Member Countries of the Organization for Economic Development and Cooperation.....	6
Example Database Record.....	7
Microbial Pesticide Directory	
Bactericides.....	10
Fungicides.....	16
Herbicides.....	69
Insecticides (includes miticides).....	71
Mixtures with inorganic compounds (including multi-spectrum products).....	186
Multi-spectrum products (microbial active ingredients only) targeting more than one Kingdom.....	192
Nematicides.....	201
Formulation Codes.....	204
List of Manufacturers.....	206

This directory is searchable

Using the 'Search' command in Adobe Acrobat

Introduction

This directory represents microbial pesticide products registered for managing agricultural invertebrate pests in member countries of the Organization for Economic Cooperation and Development (OECD). Occasionally, products with application peripheral to agriculture are listed (e.g. mosquito management in rice fields) as are some forestry uses. The products listed are based on fungi, bacteria, viruses, protozoa, or nematodes. Searches for products began by accessing data housed on web sites of CAB International, Environmental Protection Agency (USA), Biopesticide Alliance (USA), the National Pesticide Information Centre (USA), and the Society for Invertebrate Pathology. Searching these sites and conducting internet searches for certain known microbial pesticides led to the networking with websites of microbial pesticide manufactures from around the world.

The business of microbial pesticides is dynamic, with product discontinuations, de-registrations, lapsing registrations, company mergers and acquisitions, selling of product rights, and renaming of products occurring on a regular basis. For most of the products in this directory, companies were contacted by email, telephone, or fax to i) confirm that the product is registered and available; ii) to confirm that all products listed on manufacturer web sites are all those currently available; iii) to acquire the product label(s) where required; and iv) to confirm the countries of registration. Products were also regarded as manufactured and available if they were offered for sale on company websites. When required, non-English product labels were translated to acquire the information for the directory. Products were eliminated from the directory if i) the manufacturer was no longer in business; ii) the product was no longer registered; or iii) the product was no longer being manufactured or sold (although it may still be registered).

For this revision, we most often used a single product name for products previously individualized as a combination of product name and formulation type. We added the new field 'Formulation' to itemize the formulations associated with the single product name (e.g. in previous versions, Kodiak Concentrate and Kodiak Flowable were listed as separate products. In this version, there is the single product 'Kodiak', with the two formulations 'Concentrate' and 'Flowable' shown beside the field 'Formulations'). As a result, we list label crops, target pests, and OECD countries of registration that span all formulations. Exceptions to this are cases where products were considered different enough to list separately (e.g. Serenade MAX and ASO (both for production agriculture use) is separated from Serenade Garden (for home garden use)).

While this directory may not be exhaustive, the products listed are all available as September 2007. Several products were conditionally registered, most often because further data was needed to grant full registration. Because the products were available for legal use, we simply listed them as registered and will remain so unless they become unavailable. Be aware that certain countries do not require efficacy testing in order to be granted a registration.

Finally, we gratefully acknowledge the Pest Management Centre of Agriculture and Agri-Food Canada for the financial and operational support of this directory.

The OECD and Pesticide Registration

The 30 member countries of the OECD share a commitment to democratic government and a market economy. The OECD plays a prominent role in fostering good governance in the public service and in corporate activity. It produces internationally agreed instruments, decisions and recommendations to promote rules in areas where multilateral agreement is necessary to progress in a global economy. It is also a forum to discuss, develop and refine economic and social policies. The organisation is one of the world's largest and most reliable sources of comparable statistical, economic and social data. Parts of the Secretariat collect data, monitor trends, analyse and forecast economic developments, while others research social changes or evolving patterns in trade, environment, agriculture, technology, taxation and more. The OECD is at the forefront of efforts to understand and help governments respond to new challenges such as sustainable development, electronic commerce and biotechnology. This work underpins discussion by member countries when they meet in specialised committees of the OECD.¹

The Pesticide Programme is one of ten sub-programmes of the OECD's Environmental Health and Safety Programme. The Pesticide Programme focuses on both chemical and biological pesticides used in agriculture and other settings. Its goal is to help OECD countries share the work of pesticide risk assessment and find new approaches to risk reduction. The Pest Management Regulatory Agency represents Canadian interests in the OECD Pesticide Programme. Canada takes an active role in many projects of the OECD Pesticide Programme.²

Within the OECD Pesticide Programme are six sub-programme areas:

1. Registration, re-registration and work sharing – to share the burden of registration and re-registration of pesticides and to help countries co-operate in the hazard assessment of pesticides.
2. Data requirements – to promote international harmonization of pesticide data requirements for registration and use.
3. Test guidelines – To revise and develop OECD test guidelines appropriate for pesticides in order to increase the mutual acceptance among member countries of data used in pesticide assessment.
4. Hazard and risk assessment – to develop internationally harmonized pesticide assessment methods.
5. Risk reduction – to help OECD countries reduce risks associated with pesticide use.
6. Biocides – to help member countries co-operate in the assessment and registration of these products.³

These programme areas underscore the interest of member countries to harmonize testing, reporting, and reviewing of activities and data related to pest control products. In this context, this Directory of Microbial Pesticides i) can enable registration of microbial pesticides in Canada for products that have followed OECD Pesticide Programme protocols (Dossier and Monograph); ii) stimulate risk reduction programmes in Canada that would facilitate further harmonization; and iii) encourage adapting foreign pest control products to Canadian agriculture through research, followed by subsequent registration guidance from OECD protocols.

¹Excerpt from www.oecd.org

²Excerpt from <http://www.hc-sc.gc.ca/pmra-arla>

³PMRA Table of Current OECD Pesticide Projects. December 2003.

MEMBER COUNTRIES OF THE ORGANIZATION FOR ECONOMIC
DEVELOPMENT AND COOPERATION

Australia
Austria
Belgium
Canada
Czech Republic
Denmark
Finland
France
Germany
Greece
Hungary
Iceland
Ireland
Italy
Japan
Korea
Luxembourg
Mexico
Netherlands
New Zealand
Norway
Poland
Portugal
Slovak Republic
Spain
Sweden
Switzerland
Turkey
United Kingdom
United States

Example Database Record

Scutello¹

Bacillus thuringiensis subsp. *kurstaki*²

Insecticide³

Bacterium⁴

Label crops⁵

Apple, Pear, Eggplant, Gherkin, Courgette, Cucumber, Melon, Pepper (sweet), Tomato, Red cabbage, Savoy cabbage, Oxheart cabbage, Sprout, Cauliflower, Broccoli, Chinese cabbage, Ornamental flower crops, Cabbage, White cabbage

Target pests⁶

Butterfly and moth caterpillars (Small winter moth (*Operophtera brumata*), Lackey moth (*Malacosoma neustria*), Fruit moth - apple moth (*Cydia pomonella*), Small ermine moth (*Yponomeuta* spp.), Spring Noctuidae (*Noctuidae*), White butterfly (*Pieris* spp.), White satin (*Leucoma salicis*))

Formulation⁷

Liquid, WP, 2X WP (Spraying powder)

OECD registration⁸

Netherlands (Liquid and WP only), France, Belgium

Manufacturer⁹

BioBest Biological Systems

Manufacturer location

Belgium

More information¹⁰

<http://207.5.17.151/biobest/en> (Liquid and WP)

<http://207.5.17.151/biobest/en/producten/biopesticiden/bacillus.htm> (2X WP)

Label¹¹

Not available online

¹Trade name of pest control product. May or may not contain percent active ingredient and formulation

²Active ingredient(s) – microorganism(s)

³Classification of pest control product

⁴Classification of active ingredient organism

⁵Crops/conditions for which pest control product is registered

⁶Pest/conditions for which pest control product is registered

⁷List of the formulations available for the commercially available product

⁸Minimum list of OECD countries in which pest control product is registered

⁹Manufacturer of pest control product. Sometimes the major distributor is in place of the manufacturer

¹⁰More information on product, not necessarily manufacturer website (manufacturer website is found at the end of this document with list of manufacturers)

¹¹Link to the label of the product if it was found available online

Microbial Pesticide Directory

Please report errors or omissions to kabalukt@agr.gc.ca

This directory is sorted as follows: Classification of pest control product - Classification of active ingredient organism - Trade name

This directory is searchable

Using the 'Search' command in Adobe Acrobat

Bactericides

Blight Ban

Pseudomonas fluorescens A506

Bactericide

Bacterium

Label crops

Cherry, Apple, Pear, Almond, Peach, Tomato, Potato, Strawberry, Apricot, Blueberry, Nectarine

Target pests

Fireblight, Fruit russetting in pear and apple

Formulation

Organic Powder

OECD registration

United States (Washington, California, Utah, Texas, Minnesota, Iowa, Maryland, Wisconsin, Illinois, Michigan, Colorado, Delaware, Oregon, New Jersey, Idaho, Indiana, Tennessee, Alabama, Ohio, West Virginia, North Carolina, South Carolina, Florida, Pennsylvania, Vermont, Connecticut)

Manufacturer

NuFarm Inc.

Manufacturer location

United States

More information

<http://www.ag.us.nufarm.com/web/agnufarmcom/agnufarmcomprod.nsf/.nfProductsSearch/65728D62BA47C631862570C200715D5F?openDocument>

Label

<http://www.cdms.net/ldat/ld5QE002.pdf>

Dygall

Agrobacterium radiobacter strain K84

Bactericide

Bacterium

Label crops

Stone fruit (apricot, cherry, nectarine, peach, plum, prune), Pome fruit (Asian pear, European pear), Berries (blackberry, blueberry, boysenberry, raspberry), Vine fruit (grape), Ornamental (chrysanthemum, clematis, Euonymus, flowering stone fruit, Gypsophlia, marigold, rose), almond, chestnut, hop, poplar, walnut, willow, juniper, cydonia

Target pests

Crown gall (Agrobacterium tumefaciens)

Formulation

Peat based moist powder

OECD registration

Canada, New Zealand

Manufacturer

Agbioresearch Ltd.

Manufacturer location

New Zealand

More information

<http://www.marketnewzealand.com/mnz/productspec.aspx?prodSpecID=1342>

Label

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=5686

Galltrol-A

Agrobacterium radiobacter strain K84

Bactericide

Bacterium

Label crops

Almond, Apple, Apricot, Blueberry, Cherry, Filbert, Grape, Kiwifruit, Nectarine, Peach, Pear, Pecan, Plum, Prune, Bushberry, Walnut, Ornamental crops

Target pests

Crown gall (Agrobacterium tumefaciens)

Formulation

Live bacterial culture

OECD registration

United States

Manufacturer

AgBioChem Inc.

Manufacturer location

United States

More information

<http://www.crowngall.com/prod01.htm>

Label

Not available online

Hydroguard

Bacillus subtilis, Paenibacillus polymyxa, Bacillus circulans, Bacillus amyloliquefaciens

Bactericide

Bacterium

Label crops

All crops

Target pests

Suppress and resist damping off (bacterial) diseases

Formulation

Water treatment solution

OECD registration

United States

Manufacturer

American Agritech

Manufacturer location

United States

More information

http://www.americanagritech.com/product/product_detail.asp?ID=1&pro_id_pk=25

Label

Not available online

Nogall

Agrobacterium radiobacter strain K1026

Bactericide

Bacterium

Label crops

Stone fruit, Rose, Almond, Walnut, Pecan

Target pests

Crown gall

Formulation

Live bacterial culture (contained in a peat medium)

OECD registration

Australia, United States

Manufacturer

Becker Underwood Pty Ltd., New Bioproducts US Importer

Manufacturer location

Australia

More information

http://www.beckerunderwood.com/australia/our_products.asp#NOGALL™

Label

http://www.beckerunderwood.com/australia/msds/NOGALL_250G_label.pdf

Fungicides

Actino-iron

Streptomyces lydicus WYEC 108

Fungicide

Bacterium

Label crops

Ornamental plants (greenhouse, potted, nursery, bedding), Ornamental turf

Target pests

Aphanomyces root rot, Root rot (armillaria, fusarium, phytophthora, pythium, rhizoctonia, sclerotinia), Sour rot (Geotrichum candidum), Damping off (Aphanomyces, armillaria, fusarium, phytophthora, pythium, rhizoctonia, Sclerotinia, verticillium), Soilborne diseases (fusarium, phytophthora, pythium, rhizoctonia, sclerotinia, verticillium), Soilborne fungal diseases

Formulation

Granular

OECD registration

United States

Manufacturer

Natural Industries Inc.

Manufacturer location

United States

More information

<http://www.actinovate.com/ai.factsheet.pdf>

Label

<http://www.actinovate.com/ai.label.msds.pdf>

Actinovate

Streptomyces lydicus WYCD108

Fungicide

Bacterium

Label crops

Turf, Ornamental, Greenhouse, Nursery

Target pests

Soilborne plant diseases (Pythium, Rhizoctonia, Phytophthora, Verticillium, Fusarium, Phytomatotricum, Aphanomyces, Monosporascus, Armillaria, Sclerotinia, Postia, Geotrichum)

Formulation

SP

OECD registration

United States, Turkey, Registration pending in Canada

Manufacturer

Natural Industries Inc.

Manufacturer location

United States

More information

<http://www.actinovate.com/>

Label

<http://www.naturalindustries.com/sp.label.msds.pdf>

Ballad Plus

Bacillus pumilus strain QST 2808

Fungicide

Bacterium

Label crops

Cereal crops (barley, corn, millet, oat, rice, rye, sorghum, triticale, wheat), Grape seed, Soybean, Sweet corn

Target pests

Powdery mildew (*Erysiphe graminis*), Rust (*Puccinia* spp.), Blast (*Pyricularia oryzae*), Sheath spot and sheath blight (*Rhizoctonia oryzae*, *Thanatephorus kernel*), Smut (*Tilletia barclayana*), Bacterial blight and streak (*Xanthomonas* spp.), Stem rot (*Sclerotium oryzae*, *Magnaporthe* spp.), Brown rot, Leaf spot and Leaf smut (*Cercospora* spp., *Entyloma* spp., *Dreschlera* spp., *Cochliobolus* spp., *Ceratobasidium* spp.), Bacterial speck (*Pseudomonas syringae* pv. *glycinea*), Brown spot (*Septoria glycines*), *Cercospora* leaf spot (*Cercospora* spp.), Pod blight and stem blight (*Diaporthe phaseolorum* var. *sojae*, *Phomopsis longicola*), Downy mildew (*Peronospora mansherica*), White mold (*Sclerotinia stem rot*) (*Sclerotinia sclerotiorum*), Bacterial pustule (*Xanthomonas* spp.), Asian soybean rust (*Phakopsora pachyrhizi*), Common rust (*Puccinia sorghi*), Northern leaf blight (*Exserohilum turcicum*, *Helminthosporium turcicum*), Southern leaf blight (*Bipolaris maydis*, *Helminthosporium maydi*, *Cochliobolus heterostrophus*)

Formulation

AS

OECD registration

United States

Manufacturer

Agraquest

Manufacturer location

United States

More information

<http://www.agraquest.com/products/ballad/index.html>

Label

Not available online

Bio-Save 10 LP

Pseudomonas syringae strain ESC-10

Fungicide

Bacterium

Label crops

Citrus, Grapefruit, Lemon, Orange, Apple, Pear, Cherry, Potato

Target pests

Silver scurf (Helminthosporium), Blue mold (Penicillium expansum), Dry rot (Fusarium), Grey mold rot of fruit (Botrytis cinerea), Mucor fruit rot (Mucor spp.), Green mold fruit rot (Penicillium digitatum), Blue mold fruit rot (Penicillium italicum), Sour rot (Geotrichum candidum)

Formulation

Freezed-dried dry powder

OECD registration

United States, Registration pending in Canada

Manufacturer

Jet Harvest Solutions

Manufacturer location

United States

More information

<http://www.jetharvest.com/bio-save.html>

Label

<http://www.bio-save.com/biosave-10LP-150g-label.html>

Bio-Save 11 LP

Pseudomonas syringae strain ESC-11

Fungicide

Bacterium

Label crops

Pome fruit, Potato, Sweet potato

Target pests

Blue mold (*Penicillium expansum*), Grey mold, Mucor rot, Dry rot (*Fusarium sambucinum*), Silver scurf (*Helminthosporium solani*), Rhizopus rot (*Rhizopus* spp.)

Formulation

Freezed-dried dry powder

OECD registration

United States

Manufacturer

Jet Harvest Solutions

Manufacturer location

United States

More information

<http://www.jetharvest.com/bio-save11lp.html>

Label

<http://bio-save.com/biosave-11LP-250g-label.html>

Cedomon

Pseudomonas chlororaphis

Fungicide

Bacterium

Label crops

Barley, Oat

Target pests

Pyrenophora teres, Pyrenophora graminea

Formulation

Unspecified formulation

OECD registration

Austria, Finland, Norway, Sweden, Denmark, Italy

Manufacturer

BioAgri AB

Manufacturer location

Sweden

More information

<http://www.lantmannen.com/Default.aspx>

Label

Not available online

Cerall

Pseudomonas chlororaphis

Fungicide

Bacterium

Label crops

Wheat

Target pests

Tilletia caries, Septoria nodorum, Fusarium spp.

Formulation

Unspecified formulation

OECD registration

Sweden, Finland, Austria

Manufacturer

BioAgri AB

Manufacturer location

Sweden

More information

<http://www.lantmannen.com/Default.aspx>

Label

Not available online

Cillus

Bacillus subtilis

Fungicide

Bacterium

Label crops

Fruiting vegetables (pepper, tomato), Cucurbit vegetables (cucumbers, melons, pumpkin), Leafy vegetables and Cole crops (cabbage, lettuce, spinach), Bulb crop (onion), Strawberry, Turfgrass

Target pests

Grey mold (*Botrytis cinerea*), Damping off (*Rhizoctonia solani*, *Pythium ultimum*), Pythium root rot (*Pythium ultimum*), Bottom rot (*Rhizoctonia solani*), Pythium blight (*Pythium aphanidermatum*), Brown patch (*Rhizoctonia solani* AG1-1A), Large patch (*Rhizoctonia solani* AG2-2 IV), Dollar spot (*Sclerotinia homeocarpa*)

Formulation

WP

OECD registration

Korea, United States

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://www.greenfarmer.com/temp/Cillus.htm>

Label

http://www.greenfarmer.com/temp/14_Cillus.pdf

Companion

Bacillus subtilis GB03

Fungicide

Bacterium

Label crops

All flowering plants (annuals, perennials, bedding plants, ground covers, potted flowers, foliage plants), Woody ornamentals, Deciduous trees, Deciduous shrubs, Evergreen trees, Evergreen shrubs, Tropical foliage, Container grown plants, Propagation of soft-wood, Hard-wood cuttings, Foliage, Tropical plants, Shade nursery crops, Outdoor nursery crops, Containerized trees, Woody vines, Palms, Orchids, Field grown trees, Shrubs, Ornamentals, Fruit trees, Nut trees, Bare root transplants, Leafy fruiting, Cole crops (broccoli, cauliflower, cabbage, Brussels sprouts, collards), Herb and spices (coriander, basil, chives, dill, rosemary, sage, mint), Bulbs (caladium, tulip, amaryllis, hyacinth), Seasonal flowering plants (poinsettia, chrysanthemums, bromeliads), Plantlets, Berries (blueberry, blackberry, raspberry, strawberry), Cucurbits (cucumber, cantaloupe, squash, pumpkin, melons), Fruiting vegetables (pepper, tomato, eggplant, okra, tomatillo), Leafy vegetables (lettuce, celery, spinach, parsley, radicchio), Legumes (bean, green beans, snap bean, lentils, peas), Bulb vegetables (onion, garlic, shallot), Root/tuber and corn vegetables (carrot, potato, sweet potato, beets, ginger, radish, ginseng, turnip), Tropical/sub tropical fruits (bananas, mangos, papaya, avacado, coffee, pineapples), Grass grown for seed, Sod production, Pasture grass, Forage grass, Rose, Lawn, All turfgrass varieties

Target pests

Black root rot, Early blight (*Aspergillus* spp.), Crown rot, Damping off fungus, Grey mold, Leaf blight (*Alternaria* spp.), Grey mold, Blight (*Botrytis cinerea*), Root rot (*Pythium* spp.), Powdery mildew (*Golovinomyces cichoracearum*), *Podosphaera xanthii*), Late blight, Blackeye/buckeye rot in tomatoes (*Phytophthora* spp.), Wilt (*Fusarium oxysporum*), Root rot, Bottom/stem rot (*Rhizoctonia solani*), Blight, Lettuce drop (*Sclerotinia minor*), Bacterial leaf spot (*Xanthomonas campestris*), Anthracnose (*Colletotrichum* spp.), Brown patch (*Rhizoctonia* spp.), Dollar spot (*Sclerotinia*), Summer patch (*Magnaporthe poae*), *Fusarium* patch (*Fusarium nivale*), Pythium blight, Pythium rot, Pythium crown (*Pythium* spp.), Stem & root rot (*Phytophthora*), *Golovinomyces cichoracearum*, Gummy stem blight (*Didymella bryoniae*), Soft rot (*Erwinia*), Downy mildew (*Sclerospora graminicola*), Cucurbit wilting, Angular leaf spot, Bacterial (*Erwinia* spp.), Corky root, Clubroot (*Plasmodiophora brassicae*), Powdery mildew (*Podosphaera xanthii*), Angular leaf spot (*Pseudomonas* spp.), Bacterial leaf spot (*Serratia marcescens*, *Xanthomonas campestris*), Summer patch (*Magnaporthe poae*)

Formulations

LC, DC (dry concentrate)

OECD registration

United Kingdom, Greece, Italy, Turkey, New Zealand, Australia, Mexico, United States, Denmark

Manufacturer

Growth Products Ltd.

Manufacturer location

United States

More information

http://www.growthproducts.com/docs/2006_companion_biofungicide_flyer.pdf

Label

http://www.growthproducts.com/docs/companion_biological_fungicide_hort.pdf

EcoGuard

Bacillus licheniformis strain SB3086

Fungicide

Bacterium

Label crops

Golf, Sports turf, Lawn, Sod, Hydroseeding

Target pests

Dollar spot, Anthracnose

Formulation

Concentrated suspension

OECD registration

United States

Manufacturer

Novozymes Biologicals Inc.

Manufacturer location

United States

More information

<http://www.novozymes.com/NR/exeres/C674BF00-47B9-459E-97D4-0D120311B84F.htm>

Label

<http://www.novozymes.com/NR/rdonlyres/10E46920-CB6B-4753-9C24-04AD3925C66C/0/EcoGuard06.pdf>

Green-all G

Bacillus subtilis

Fungicide

Bacterium

Label crops

Tomato

Target pests

Grey mold, Pythium blight, Damping off

Formulation

Unspecified formulation

OECD registration

Korea, United States

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://my.ecplaza.net/greenbiotech/profile.asp>

Label

Not available online

HiStick N/T

Bacillus subtilis MBI 600

Fungicide

Bacterium

Label crops

Soybean

Target pests

Aspergillus, Fusarium, Rhizoctonia

Formulations

Sterile peat co-inoculant, Sterile liquid twin pack

OECD registration

United States, Canada

Manufacturer

Becker Underwood Inc.

Manufacturer location

United States

More information

<http://www.beckerunderwood.com/inoculants/productdisplay.asp?product=hsntts>

Label

<http://www.beckerunderwood.com/inoculants/TechSheets%5CHS%20Soybean%20NT.pdf>

Impression WP

Bacillus subtilis strain QST 713

Fungicide

Bacterium

Label crops

Grape, Tomato

Target pests

Grey mold, Powdery mildew

Formulation

WP

OECD registration

Japan, Mexico, New Zealand, Switzerland (sold only in Japan)

Manufacturer

Agraquest Inc.

Manufacturer location

United States

More information

<http://www.agraquest.com/index.html>

Label

Not available online

Kodiak

Bacillus subtilis GB03

Fungicide

Bacterium

Label crops

Bean (navy, pinto, kidney, snap, green, pole, wax, lima, garden, field), Garden pea, Cotton, Pea, Peanut, Soybean, Wheat, Barley, Corn (field and sweet), Agricultural seeds

Target pests

Root rot (Fusarium, Pythium, Rhizoctonia), Rhizobium, Aspergillus, Bradyrhizobium

Formulation

Concentrate, Flowable

OECD registration

United States

Manufacturer

Gustafson, LLC

Manufacturer location

United States

More information

http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/id/Gust_Home

Label

[http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/files/Gustafson_Labels/\\$file/kodiakcon.pdf](http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/files/Gustafson_Labels/$file/kodiakcon.pdf) (Kodiak Concentrate)

[http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/files/Gustafson_Labels/\\$file/kodiakfl.pdf](http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/files/Gustafson_Labels/$file/kodiakfl.pdf)(Kodiak Flowable)

Mycostop

Streptomyces griseoviridis strain K61

Fungicide

Bacterium

Label crops

Greenhouse vegetables (cucumber, tomato, pepper), Container grown vegetables, Container grown ornamentals, Trees, Forest seedlings, Herbs, Ornamentals (field, greenhouse), Vegetables, Forest, Agronomic crops (cotton, field corn, soybean, sorghum, bean, pea)

Target pests

Fusarium wilt, Botrytis grey mold (Botrytis cinerea), Root rot (Fusarium, Phytophthora, Pythium), Stem rot (Fusarium), Stem-end rot (Phomopsis), Damping off, Seed rot (Fusarium, Alternaria, Phomopsis), Soil borne Damping off, Crown rot, Rhizoctonia, Phytophthora, Wilt, Seed damping off, Early root rot

Formulation

Powder (dried spores and mycelium), Mix (organic dust (Granular))

OECD registration

United States, Canada (Powder only), Denmark(Powder only), Finland(Powder only), Hungary(Powder only), Italy(Powder only), Netherlands(Powder only), Norway(Powder only), Spain(Powder only), Sweden(Powder only)

Manufacturer

Verdera Oy

Manufacturer location

Finland

More information

http://www.verdera.fi/body_mycostopeng.html (Powder)

http://www.verdera.fi/body_mycostopmixeng.html (Granular)

Label

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=10831

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=4602

NH

Paenibacillus polymyxa AC-1

Fungicide

Bacterium

Label crops

Cucumber

Target pests

Damping off, Powdery mildew

Formulation

Unspecified formulation

OECD registration

Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://my.ecplaza.net/greenbiotech/profile.asp>

Label

Not available online

Pro-Mix with Biofungicide

Bacillus subtilis MBI 600

Fungicide

Bacterium

Label crops

Agricultural transplants (vegetable, tobacco), All ornamental plants (bedding plants, potted flowering plants, shrubs, perennials)

Target pests

Pythium spp., Rhizoctonia spp., Fusarium spp

Formulation

HP (High porosity), BX, PGX

OECD registration

United States (except California), Registration pending in Canada

Manufacturer

Premier Horticulture Inc.

Manufacturer location

United States

More information

<http://www.premierhort.com/website/products/aproducts/aprodprof/aprodbiofungicide/afbiofungicide.html>

Label

Not available online

Sonata

Bacillus pumilus strain QST 2808

Fungicide

Bacterium

Label crops

Artichoke, Asparagus, Berries (blueberry, blackberry, raspberry, loganberry, huckleberry, gooseberry, elderberry, currant, caneberry), Brassica (broccoli, cabbage, cauliflower, Brussels sprouts, collards, kale, mustard greens, kohlrabi), Bulb vegetables (onion, garlic, shallots), Cucurbits (cucumber, cantaloupe, melon, muskmelon, squash, watermelon), Fruiting vegetables (pepper, tomato, eggplant), Grape, Grape seed, Hop, Leafy vegetables (lettuce, celery, spinach, parsley, radicchio), Legumes vegetables (bean, green bean, snap bean, shell bean, dry bean, garbanzo bean, lima bean, pea, chickpea, split pea, lentils), Mint, Pome fruit (apple, crabapple, pear, quince, mayhaw), Root/tuber vegetables (carrot, potato, sweet potato, beets, ginger, horseradish, radish, ginseng, turnip), Roses (field), Stone fruit (apricot, cherry, nectarine, peach, plum, prune), strawberry, sweet corn

Target pests

Powdery mildew (*Leveillula taurica*, *Erysiphe cichoracearum*, *Erysiphe polygoni*, *Erysiphe graminis*, *Erysiphe* spp., *Microsphaera alni*, *Sphaerotheca parnosa*, *Sphaerotheca macularis*, *Sphaerotheca* spp., *Oidiopsis taurica*, *Uncinula necator*, *Podosphaera clandestina*, *Podosphaera leucotricha*, *Podosphaera* spp.), Rust (*Puccinia asparagi*, *Puccinia porri*, *Puccinia menthae*, *Puccinia* spp.), Leaf rust (*Pucciniastrum vaccinii*), Downy mildew (*Peronospora parasitica*, *Peronospora* spp., *Pseudoperonospora cubensis*, *Bremia lactucae*), Onion downy mildew (*Peronospora destructor*), Early blight (*Alternaria solani*), Late blight (*Phytophthora infestans*), Scab (*Venturia* spp.), White mold (*Sclerotinia sclerotiorum*), Common rust (*Puccinia sorghi*), Northern leaf blight (*Exserohilum turcicum*, *Helminthosporium turcicum*), Southern leaf blight (*Bipolaris maydis*, *Helminthosporium maydi*, *Cochliobolus heterostrophus*)

Formulation

AS

OECD registration

United States

Manufacturer

Agraquest Inc.

Manufacturer location

United States

More information

<http://www.agraquest.com/products/sonata/index.html>

Label

<http://www.agraquest.com/products-solutions/labels-msds-pdfs/US019-004-Sonata-specimen.pdf>

Spot-less

Pseudomonas aureofaciens strain TX-1

Fungicide

Bacterium

Label crops

Unspecified crops

Target pests

Pythium

Formulation

Live bacterial culture

OECD registration

United States, Canada

Manufacturer

Turf Science Laboratories Inc.

Manufacturer location

United States

More information

<http://www.turfsciencelabs.com>

Label

Not available online

Subtilex

Bacillus subtilis MBI 600

Fungicide

Bacterium

Label crops

Corn (sweet, field), Turf grass, Alfalfa, Barley, Wheat, Cotton, Peanut, Soybean, Forage

Target pests

Seedling disease (Rhizoctonia, Fusarium), Fusarium wilt, Root disease (Rhizoctonia, Fusarium, Aspergillus, Pythium), Improvement of nodulation (Rhizobium, Bradyrhizobium japonicum)

Formulation

WS

OECD registration

United States. Sold with no required registration in United Kingdom.

Manufacturer

Becker Underwood Inc.

Manufacturer location

United States

More information

<http://www.beckerunderwood.com/inoculants/productdisplay.asp?product=subtilex>

Label

<http://www.beckerunderwood.com/inoculants/TechSheets%5CSubtilex.pdf>

Topseed

Paenibacillus polymyxa AC-1

Fungicide

Bacterium

Label crops

Cucurbit vegetables (Cucumber, Melon, Pumpkin), Fruiting vegetables (Pepper, Tomato), Leafy vegetable and Cole crops (Lettuce, Cabbage, Spinach), Turfgrass

Target pests

Damping off (*Rhizoctonia solani*), Powdery mildew (*Sphaerotheca fuliginea*, *Pythium ultimum*), Phytophthora blight (*Phytophthora capsici*), Phytophthora late blight (*Phytophthora infestans*), Phytophthora root rot (*Phytophthora* spp.), *Rhizoctonia* root rot, leaf rot, Bottom rot (*Rhizoctonia solani*), Brown patch (*Rhizoctonia solani* AG1-1A), Large patch (*Rhizoctonia solani* AG2-2)

Formulation

SC

OECD registration

Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://www.greenfarmer.com/temp/Topseed.htm>

Label

http://www.greenfarmer.com/temp/12_Topseed.pdf

YieldShield

Bacillus pumilus strain GB34

Fungicide

Bacterium

Label crops

Soybean seed

Target pests

Rhizoctonia spp., Fusarium spp.

Formulation

Concentrate

OECD registration

United States

Manufacturer

Gustafson, LLC

Manufacturer location

Unites States

More information

http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/id/Gust_Home

Label

[http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/files/Gustafson%20Labels/\\$file/yield_shield.pdf](http://www.bayercropscience.com/BAYER/CropScience/BCSUS.nsf/files/Gustafson%20Labels/$file/yield_shield.pdf)

Aspergillus flavus AF36

Aspergillus flavus strain AF36

Fungicide

Fungus

Label crops Cotton, Registration pending for Corn, Pistachio and Almonds

Target pests Aspergillus flavus

Formulation Living fungus growing on sterile wheat seed

OECD registration United States (Texas, Arizona and Southern California)

Manufacturer Arizona Cotton Research and Protection Council

Manufacturer location United States

More information <http://www.azcotton.org>

Label Not available online

Binab T Pellets

Trichoderma IMI 206039/IMI 206040 (Trichoderma polysporum, Trichoderma harzianum)

Fungicide

Fungus

Label crops

Trees, Wood fence posts, Wood utility poles, Playground equipment (wood, nonsoil contact nonfumigation treatment)

Target pests

Pruning wound infection or root contacts in trees, Silverleaf caused by Chondrostereum purpureum

Formulation

Pellets

OECD registration

Denmark, Sweden, United States, Germany

Manufacturer

Binab Bio-Innovation EFTR AB

Manufacturer location

Sweden

More information

<http://www.algonet.se/~binab/english/tp.htm>

Label

Not available online

Binab T Vector

Trichoderma polysporum and Trichoderma harzianum

Fungicide

Fungus

Label crops

Flowering crops (greenhouse, open ground), Pot plants, Vegetables, Mushroom, Flower bulbs, Nursery, Berries, Fruit, Ornamental trees, Cut flowers

Target pests

Fungal pathogens, Fairy ring, Botrytis, Verticillium, Pythium, Fusarium, Phytophthora, Rhizoctonia, Didymella, Chondrostereum, Heterobasidion

Formulation

Powder, WG, WP

OECD registration

Denmark, Sweden, United States, Germany

Manufacturer

Binab Bio-Innovation EFTR AB

Manufacturer location

Sweden

More information

<http://www.algonet.se/~binab/english/prod.htm>

Label

Not available online

Contans WG

Coniothyrium minitans strain CON/M-91-05

Fungicide

Fungus

Label crops

Artichoke, Asparagus, Avacado, Bean, Broccoli, Cabbage, Carrot, Celery, Chickpea, Chicory, Cucumber, Eggplant, Endive, Fennel, Kiwi fruit, Lettuce, Parsley, Pea, Pepper, Snap bean, Tomato, Watermelon, Alfalfa, Canola, Chive, Dry bean, Hemp, Lentil, Oilseed rape, Potato, Red clover, Safflower, Soybean, Sunflower, Tobacco, Leafy vegetables, Fruiting vegetables, Bulb vegetables, Cereal crops, Legume vegetables, Oil seeds, Herbs, Spices, Ornamental plants

Target pests

Sclerotinia sclerotiorum, Sclerotinia minor

Formulation

WDG, WG

OECD registration

Austria, Belgium, Denmark, France, Germany, Italy, Luxembourg, Mexico, Netherlands, Poland, Switzerland, United States, Czech Republic, Japan, Slovak Republic, Spain, United Kingdom

Manufacturer

Prophyta Biologischer Pflanzenschutz GmbH / Marketed by Sylvan Bioproducts Inc.

Manufacturer location

Germany

More information

<http://www.prophyta.de/englisch/index1280.html?start.html> (WG)

Label

http://www.prophyta.de/englisch/pdf/Contans_General_Prod_Information.pdf (WG)

Fusaclean

Fusarium oxysporum

Fungicide

Fungus

Label crops Asparagus, Basil, Carnation, Cyclamen, Gerbera, Tomato

Target pests Fusarium oxysporum diseases

Formulation Unspecified formulation

OECD registration Czech Republic

Manufacturer Natural Plant Protection

Manufacturer location France

More information <http://www.wisard.org/wisard/shared/asp/generalinfoserver/intermediate.asp?InstitutionID=7120>

Label Not available online

Green-all Q

Ampelomyces quisqualis 94013

Fungicide

Fungus

Label crops

Cucurbit vegetables (cucumber), Fruiting vegetables (pepper, tomato), Fruits (grape, strawberry)

Target pests

Powdery mildew

Formulation

Unspecified formulation

OECD registration

Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://my.ecplaza.net/greenbiotech/2.asp>

Label

Not available online

Green-all T WP

Trichoderma harzianum strain GBF-0208

Fungicide

Fungus

Label crops

Pepper, Tomato, Cucumber, Melon, Pumpkin, Cabbage, Lettuce, Spinach, Turfgrass, Potting mix (soil), Seed tuber, Bulb, Transplants

Target pests

Damping off (*Rhizoctonia solani*, *Pythium* spp.), Fusarium wilt (*Fusarium oxysporum*), Pythium root (*Pythium ultimum*), Pythium root rot, Pythium blight (*Pythium aphanidermatum*), Large patch, Leaf rot, Bottom rot, Brown patch (*Rhizoctonia solani* AG1-1A)

Formulation

WP

OECD registration

In process of registration in Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://my.ecplaza.net/greenbiotech/1.asp>

Label

Not available online

KONI

Coniothyrium minitans

Fungicide

Fungus

Label crops

Cucumber, Lettuce, Paprika, Ornamental plants (in greenhouse), Root vegetables (carrot, parsley), Tomato (arable, greenhouse), Ornamental plants under protected conditions (chrysanthemum, gerbera), Annual ornamental plants, Sunflower, Oil seed rape, Soybean

Target pests

Sclerotinia sclerotiorum, Sclerotinia minor

Formulations

WG

OECD registration

Hungary, Registration pending in Slovak Republic

Manufacturer

BIOVED Ltd.

Manufacturer location

Hungary

More information

<http://www.bioved.hu/products.htm>

Label

Not available online

PlantShield HC

Trichoderma harzianum strain T-22 (KRL-AG2)

Fungicide

Fungus

Label crops

Ornamentals (Anthurium, azalea, carnation, chrysanthemum, dracaena, Ficus, Gardenia, gladiolus, impatiens, lily, marigold, pansy, petunia, poinsettia, potho, Rhododendron, rose, Schefflera, Spathiphyllum, tulip, vinca, Dianthus, Dieffenbachia), Grape, Cucumber, Melon, Gourd, Squash, Eggplant, Pepper (sweet, hot), Tomato, Broccoli, Brussels sprout, Cabbage, Cauliflower, Celery, Collard, Endive, Kale, Kohlrabi, Lettuce, Mustard greens, Parsley, Spinach, Sage, Rosemary, Thyme, Peppermint, Dill, Herbs, Spices, Pear, Deciduous trees, Peach, Plum, Nectarine, Pecan, Pistachio, Almond, Walnut

Target pests

Pythium, Rhizoctonia, Fusarium, Cyindrocladium, Thielaviopsis, Botrytis, Powdery mildew

Formulation

WP

OECD registration

United States

Manufacturer

Bioworks Inc.

Manufacturer location

United States

More information

<http://www.bioworksinc.com/productsections/hortprod.html>

Label

<http://www.bioworksbiocontrol.com/plantshieldhc/pdf/PlantShieldHC.pdf>

Polyversum

Pythium oligandrum

Fungicide

Fungus

Label crops

Tomato, Potato, Pepper, Cucumber, Grape, Strawberry, Banana, Citrus, Legumes, Cereal, Canola, Forest nursery, Ornamental plants, Sugar beet

Target pests

Pythium spp., Fusarium spp., Botrytis spp., Phytophthora spp., Aphanomyces spp., Alternaria spp., Tilletia caries, Pseudocercospora herpotrichoides, Gaeumannomyces graminis, Rhizoctonia solani, Sclerotium cepivorum

Formulation

WP

OECD registration

Czech Republic, Slovak Republic, Poland, Hungary, Austria, Germany. In process of registration in United States.

Manufacturer

Biopreparaty Ltd.

Manufacturer location

Czech Republic

More information

<http://www.oardc.ohio-state.edu/apsbcc/productlist.htm>

Label

Not available online

Prestop WP

Gliocladium catenulatum strain J1446

Fungicide

Fungus

Label crops

Vegetables (greenhouse, field), Ornamental plants, Herbs, Cucumber, Tomato, Pepper, Seedling, Trees, Forest seedlings, Turf, Trees

Target pests

Damping off (Pythium, Rhizoctonia), Gummy stem blight (Didymella), Grey mold (Botrytis), Root rot, Stem rot, Wilt (Alternaria, Cladosporium, Fusarium, Penicillium, Phytophthora, Plicaria, Pythium, Rhizoctonia, Verticillium), Storage diseases (Helminthosporium, Rhizoctonia), Foliar diseases (Botrytis, Didymella, Rhizoctonia, Pythium, Phytophthora, Fusarium, Verticillium, Alternaria, Cladosporium, Helminthosporium, Penicillium, Plicaria), Seed rot

Formulation

WP, Powder

OECD registration

Finland, United States, Registration Pending in Canada

Manufacturer

Verdera Oy

Manufacturer location

Finland

More information

http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=06413700008&DIST_NR=064137

<http://www.verdera.fi/home.html>

http://www.epa.gov/pesticides/biopesticides/ingredients/tech_docs/brad_021009.pdf

Label

Not available online

Q-Fect

Ampelomyces quisqualis 94013

Fungicide

Fungus

Label crops

Cucurbit vegetables (cucumber, melon, pumpkin), Fruiting vegetables (pepper, tomato), Fruits (grape, pear), Strawberry, Rose, Barley

Target pests

Powdery mildew (Sphaerotheca fuliginea, Leveillula taurica, Erysiphe cichoracearum, Phyllactinia pyri, Uncinula necator, Sphaerotheca humuli, Sphaerotheca pannosa, Blumeria graminis)

Formulation

WP

OECD registration

Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

http://www.greenfarmer.com/temp/Q_fect.htm

Label

Not available online

Rootshield Drench

Trichoderma harzianum strain T-22 (KRL-AG2)

Fungicide

Fungus

Label crops

Ornamentals (Anthurium, azalea, carnation, chrysanthemum, dracaena, Ficus, gardenia, gladiolus, impatiens, lily, marigold, pansy, petunia, poinsettia, potho, rhododendron, rose, Schefflera, Spathiphyllum, tulip, vinca), Cucumbers, Tomato

Target pests

Pythium, Rhizoctonia, Fusarium

Formulation

WP

OECD registration

Canada

Manufacturer

Bioworks Inc.

Manufacturer location

Canada

More information

<http://www.bioworksinc.com>

Label

<http://www.bioworksinc.com/rootshield/pdf/labels/RootShieldDrenchEn6Nov03.pdf>

RootShield Granules

Trichoderma harzianum Rifai strain KRL-AG2

Fungicide

Fungus

Label crops

Fruiting vegetables (eggplant, sweet and hot, peppers, tomatillos, tomatoes), Herbs, Spices, Mints, Hydroponic crops (cucumbers, tomatoes, lettuce, herbs, spices), Leafy vegetables and Cole crops (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), Pome fruit (pears, quince), Shadehouse and outdoor nursery crops (deciduous trees (maple, oak), ornamentals, grape, citrus, pine), Stone fruit (apricot, cherry, nectarine, peach, plum, prune), Tree nuts (almond, beech nut, Brazil nuts, butternuts, cashews, chestnuts, filberts, hickory nuts, macadamia nuts, pecans, pistachios, walnuts)

Target pests

Cylindrocladium, Fusarium, Pythium, Rhizoctonia, Thielaviopsis

Formulation

Granules

OECD registration

Canada, United States

Manufacturer

Bioworks Inc.

Manufacturer location

United States

More information

<http://www.bioworksinc.com/productsections/hortprod.html>

Label

http://www.bioworksinc.com/rootshield/pdf/labels/RSG_Label_Revision_10-05.pdf

Sentinel

Trichoderma strain LC52

Fungicide

Fungus

Label crops

Grapes, Tomatoes

Target pests

Botrytis cinerea

Formulation

WP

OECD registration

New Zealand

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/sentinel.html>

Label

Not available online

Soilgard 12G

Gliocladium virens strain GL-21

Fungicide

Fungus

Label crops

Food crops, Greenhouse crops, Ornamental crops

Target pests

Root rot/Damping off (Pythium spp., Rhizoctonia spp.)

Formulation

Granular

OECD registration

United States, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/soilgard-microbial-fungicide.htm>

Label

<http://www.certisusa.com/pdf-labels/SoilGard-12G-label-050505.pdf>

Suprevisit

Trichoderma harzianum

Fungicide

Fungus

Label crops	Seeds of legumes and leafy green vegetables
Target pests	Fungal infections (Pythium, Phytophthora, Botrytis, Rhizoctonia)
Formulation	Unspecified formulation
OECD registration	Denmark
Manufacturer	Borregaard Bioplant
Manufacturer location	Denmark
More information	http://www.bioplant.dk/bioplantdk/dk/produkt/produkt.htm
Label	Not available online

T-22 Granules

Trichoderma harzianum Rifai strain KRL-AG2

Fungicide

Fungus

Label crops

All crops, Agronomic crops (Buckwheat, Beans (soybeans, snap, dry), Corn (grain, seed, sweet corn, silage, popcorn, high oil), Cotton, Canola, Peas (dry, succulent), Safflower, Sunflower, Alfalfa hay and Forage crops (alfalfa, clover, vetch, trefoil), Bulb vegetables (garlic, leek, onion, shallot), Cucurbit vegetables (cucumber, melon, gourd, pumpkin, squash), Fruiting vegetables (eggplant, sweet pepper, hot pepper, tomatillo, tomato), Herbs, Spices, Mints, Leafy vegetable and cole crops (arugula, asparagus, broccoli, Brussels sprouts, cabbage, cauliflower, celery, chervil, collards, endive, fennel, kale, kohlrabi, lettuce (head and leaf), mustard greens, parsley, radicchio, rhubarb, spinach, Swiss chard), Legume vegetable and field crops (snap and dry Bean, lentils, succulent and dry Peas, peanut, soybean), Root crops (beets, sugar beet, red beet, carrot, celeriac, chicory, horseradish, parsnip, radish, rutabaga, salsify, turnip), Small grains (rye, sorghum, wheat, millet), Tuber crops (white potato, sweet potato, yams, artichoke, cassava, ginger)

Target pests

Root diseases (Pythium, Rhizoctonia, Fusarium, Cylindrocladium, Thielaviopsis)

Formulation

Granular, HC, WP, Planter box

OECD registration

United States

Manufacturer

Bioworks Inc.

Manufacturer location

United States

More information

<http://www.bioworksinc.com>

Label

<http://www.bioworksinc.com/t22hc/pdf/T22HC.pdf> (HC)

<http://www.bioworksinc.com/t-22/pdf/T22PB.pdf> (Planter box)

TRIANUM P

Trichoderma harzianum Rifai strain KRL-AG2

Fungicide

Fungus

Label crops

Small fruit, Blackberry, Raspberry, Blueberry, Currant, Gooseberry, Grape, Strawberry, Citrus, Grapefruit, Orange, Tangerine, Nut trees, Almond, Pecan, Walnut, Pistachio nut, Pome fruit, Pear, Stone fruit, Nectarine, Peach, Plum, Spices, Dill, Rosemary, Sage, Thyme, Cucurbit, Melon, Cucumber, Squash, Gourd, Fruiting vegetables, Eggplant, Pepper, Tomato, Leafy vegetables, Cole crops, Broccoli, Brussels sprout, Cabbage, Cauliflower, Collard, Kale, Kohlrabi, Endive, Escarole, Mustard greens, Parsley, Spinach, Lettuce (head, leaf), Root vegetable crops, Carrot, Garlic, Onion, Potato, Radish, Bean, Corn, Pea, Lentil, Corn, Sorghum, Wheat, Buckwheat, Safflower, Canola, Beet, Celery, Cotton, Peppermint, Peanut, Sorghum, Sugar beet, Sunflower, Turnip, Soybean, Legume, Field crops, Herbs, Ornamental flowering plants, Ornamental plants, Ornamental turf, Azalea, Ficus, Gardenia, Vinca, Potho, Rhododendron, Rose, Ornamental trees, Maple, Oak, Pine

Target pests

Damping off (Cylindrocladium, Fusarium, Pythium, Rhizoctonia, Thielaviopsis)

Formulation

WP

OECD registration

Canada, Mexico, Netherlands, United States

Manufacturer

Bioworks Inc.

Manufacturer location

Europe

More information

<http://www.bioworksinc.com>

Label

Not available online

Trich-A-Soil

Trichoderma viride and Trichoderma harzianum

Fungicide

Fungus

Label crops

Professional turf, Polyhouse, Glasshouse, Nursery irrigation, Seedlings, Field crops

Target pests

Soilborne fungal pathogens

Formulation

WP

OECD registration

Australia

Manufacturer

Becker Underwood Pty Ltd.

Manufacturer location

Australia

More information

<http://www.ocp.com.au/webcontent3.htm>

Label

<http://www.ocp.com.au/TrichLabel.pdf>

Trichodex

Trichoderma harzianum Rifai strain T-39

Fungicide

Fungus

Label crops

Blackberry, Boysenberry, Dewberry, Loganberry, Raspberry, Youngberry, Blueberry, Cranberry, Currant, Elderberry, Gooseberry, Grape, Huckleberry, Strawberry, Olallieberry, Citrus, Citron, Grapefruit, Kumquat, Orange, Tangelo, Mandarin, Tangerine, Calamondin, Chironja, Pummelo, Almond, Brazil nut, Cashew, Chestnut, Filbert, Hickory nut, Macadamia nut, Pecan, Walnut, Butternut, Pistachio nut, Beech nut, Crabapple, Pear, Oriental pear, Quince, Apricot, Cherry, Nectarine, Peach, Plum, Prune, Banana, Date, Fig, Guava, Mango, Loquat, Papaya, Persimmon, Pineapple, Passion fruit, Pomegranate, Litchi nut, Acerola, Carambola, Cherimoya, Atemoya, Coffee, Celery, Cilantro, Fennel, Ginger, Pepper, Turmeric, Cantaloupe, Casaba melon, Crenshaw melon, Honey ball melon, Honeydew melon, Muskmelon, Persian melon, Watermelon, Chinese waxgourd, Cucumber, Pumpkin, Squash, Citron melon, Balsam pear, Gourd, Gherkin, Mango melon, Chayote, Eggplant, Pepper, Pimento, Pepino, Tomatillo, Groundcherry, Celery, Chicory, Radicchio, Broccoli, Brussels sprout, Cauliflower, Collard, Chinese cabbage, Kale, Kohlrabi, Dandelion, Endive, Artichoke, Lettuce, Mustard greens, Parsley, Rhubarb, Spinach, Swiss chard, Turnip, Chinese spinach, Rapeseed, New Zealand spinach, Bamboo shoot, Broccoli raab, Chinese broccoli, Chinese mustard, Chervil, Arugula, Celtuce, Chrysanthemum, Dock, Orach, Garden purslane, Beet, Chinese artichoke, Celeriac, Dasheen, Garlic, Horseradish, Jerusalem artichoke, Leek, Onion, Parsnip, Potato, Radish, Rutabaga, Salsify, Shallot, Sweet potato, Chicory, Yam, Burdock, Chinese radish, Cassava, Arrowroot, Tanier, Goa bean, Leren, Chufa, Arracacia, Black-eyed pea, Lentil, Okra, Chinese longbean, Catjang, Asparagus, Alfalfa, Peanut, Guar, Sunflower, Olive, Avacado, Bean

Target pests

Botritis cinerea, Collectotrichum spp., Fulvia fulva, Monilia laxa, Plasmopara viticola, Pseudoperonospora cubensis, Rhizopus stolonifer, Sclerotinia sclerotiorum

Formulation

Unspecified formulation

OECD registration

Italy, Germany, Spain, United States

Manufacturer

Makhteshim

Manufacturer location

Israel

More information

<http://www.mauk.co.uk/include.asp?sec=71&con=328>

Label

Not available online

Trichodry

Trichoderma spp.

Fungicide

Fungus

Label crops

Seed raising, Potting mix, Propagation

Target pests

Suppresses root pathogens including Pythium, Fusarium, Rhizoctonia, Sclerotinia, Phytophthora spp.

Formulation

Starter flake

OECD registration

Australia, New Zealand, Turkey

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/trichotech.html>

Label

Not available online

Trichoflow

Trichoderma spp.

Fungicide

Fungus

Label crops

Tomato, Capsicum, Cucurbit, Cut flowers

Target pests

Suppresses root pathogens including Pythium, Fusarium, Rhizoctonia, Phytophthora spp.

Formulation

WP

OECD registration

Australia, New Zealand, Turkey

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/trichotech.html>

Label

Not available online

Trichomic

Trichoderma spp.

Fungicide

Fungus

Label crops Ornamentals, Fruit, Citric fruit, Lawn, Olive

Target pests Soil pathogens

Formulation Unspecified formulation

OECD registration Italy, Turkey, Spain

Manufacturer AMC Chemical /Trichodex

Manufacturer location Spain

More information <http://www.amcchemical.com/en/index.html>

Label Not available online

Trichospray

Trichoderma spp.

Fungicide

Fungus

Label crops

Foliage, Flowers

Target pests

Suppresses root pathogens including Pythium, Fusarium, Rhizoctonia, Phytophthora spp.

Formulation

WP

OECD registration

Australia, New Zealand, Turkey

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/trichotech.html>

Label

Not available online

Trichopel R

Trichoderma spp.

Fungicide

Fungus

Label crops

Apple, Grapes, Avacado, Kiwi fruit, Flowers (bulbs, tubers), Beetroot, Strawberry, Field crops

Target pests

Suppresses root pathogens including Pythium, Fusarium, Rhizoctonia, Sclerotinia, Phytophthora spp.

Formulation

Granule

OECD registration

New Zealand

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/tricho.html>

Label

<http://www.tricho.com/pdfs/BrochureTrichopel.pdf>

Vinevax Natural Bio-inoculant Implant

Trichoderma spp.

Fungicide

Fungus

Label crops

Vineyards, Orchards, Ornamental trees, Vines

Target pests

Diseases caused by wood-infecting fungal pathogens, Eutypa Lata, Botryosphaeria stevensii

Formulation

“Vaccination” dowel implant

OECD registration

New Zealand, Australia

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/vinevax.html>

Label

<http://www.tricho.com/pdfs/BrochureVinvaxBioImplant.pdf>

Vinevax Bio-inoculant Injection

Trichoderma spp.

Fungicide

Fungus

Label crops	Kiwi fruit vines, Orchard trees, Ornamental trees, Grapevines
Target pests	Armillaria, Wood and root decay fungi
Formulation	WP concentrate
OECD registration	Australia, New Zealand
Manufacturer	Agrimm Technologies Ltd.
Manufacturer location	New Zealand
More information	http://www.tricho.com/vinevax.html
Label	http://www.tricho.com/pdfs/BrochureVinevaxBioInjec.pdf

Vinevax Pruning Wound Dressing

Trichoderma spp.

Fungicide

Fungus

Label crops

Grapevines, Orchard trees, Ornamental trees, Kiwifruit vines

Target pests

Eutypa dieback (Eutypa lata), Silverleaf, Dieback disease, Dead arm disease, Vine decline disease

Formulation

WP spray brush-on paste

OECD registration

Australia, New Zealand

Manufacturer

Agrimm Technologies Ltd.

Manufacturer location

New Zealand

More information

<http://www.tricho.com/vinevax.html>

Label

<http://www.tricho.com/pdfs/BrochureVinevaxPWD.pdf>

Herbicides

Smolder

Alternaria destruens

Herbicide

Fungus

Label crops

Artichoke, Asparagus, Bean, Cole crops, Broccoli, Cabbage, Leafy vegetables, Celery, Lettuce, Spinach, Onion, Root and tuber vegetables, Carrot, Potato, Radish, Sugar beet, Fruiting vegetables, Tomato, Pepper, Eggplant, Cucurbit vegetables, Cucumber, Melon, Squash, Herbs and Spices, Basil, Chervil, Cilantro, Dill, Oregano, Thyme, Grape, Cranberry, Strawberry, Blueberry, Blackberry and Raspberry, Alfalfa, Clover, Sunflower, Safflower

Target pests

Dodder (*Cuscuta* spp.)

Formulation

Granular, WP

OECD registration

United States (registered only in Massachusetts, Wisconsin)

Manufacturer

Sylvan Bioproducts

Manufacturer location

United States

More information

<http://www.sylvanbio.com/>

Label

Not available online

Insecticides

Agree

Bacillus thuringiensis subsp. aizawai strain GC-91

Insecticide

Bacterium

Label crops

Cole crops, Terrestrial Chinese vegetables, Terrestrial green leafy vegetables, Celery, Beans, Peas, Tomato, Pepper, Tobacco, Cotton, Terrestrial ornamentals, Terrestrial flowers, Stone fruits (peach, nectarine, plum, prune, cherry), Tree nuts (almond, filbert, walnut, pecan), Pistachio, Greenhouse vegetables (tomato, cole crops, pepper), Grapes, Corn, Terrestrial small fruits, Terrestrial small berries, Craberry, Cucurbits, Potato, Soybean, Pome fruits (apple, pear), Alfalfa, Forage crops, Citrus (grapefruit, tangerine, orange), Sugar beet, Radish, Root crops, Leaves of root, Tuber vegetables, Herbs, Spices, Peanuts, Peppermint, Spearmint, Artichoke, Bulb vegetables (onions, garlic)

Target pests

Rindworm complex, Fruitworm, Looper, Saltmarsh caterpillar, Spanworm, Gypsy moth, Cutworm, Velvetbean caterpillar, Tobacco budworm, Podworm, Cotton bollworm, Tomato fruitworm, Green cloverworm, Armyworm, Soybean looper, Beet armyworm, False armyworm, Citrus cutworm, Orangedog, Alfalfa caterpillar, Imported cabbageworm, Melonworm, Cross-striped cabbageworm, European corn borer, Navel orangeworm, Hornworm, Redbanded leafroller, Obliquebanded leafroller, Pandemis leafroller, Tufted apple bud moth, Codling moth, Grapeleaf skeletonizer, Diamondback moth, Budworm, Twig borer, Blossom worm

Formulation

WP, WG

OECD registration

United States, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/turex-agree-wp-bioinsecticide.htm> (WP)

<http://www.certisusa.com/products/agree-wg-bioinsecticide.htm> (WG)

Label

<http://www.certisusa.com/pdf-labels/Agree-50-WP-label-M060104.pdf> (WP)

<http://www.certisusa.com/pdf-labels/Agree-WG-label-050505.pdf> (WG)

Bactimos

Bacillus thuringiensis subsp. israelensis serotype H-14

Insecticide

Bacterium

Label crops

Rice fields, Pastures, Ditches, Ponds, Catch basins, Flood water, Salt marshes, Tidal water, Mangrove swamps (water treatment), Pools (woodland) (water treatment), Storms waters retention areas, Swamps, Marshes, Bogs

Target pests

Mosquito

Formulation

Granules, Pellets

OECD registration

United States, unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com/public_health_and_forestry/public_health_and_forestry_2.asp

Label

Not available online

Batik

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Cabbage, Apple, Pear, Walnut, Vine, Rice, Forestry

Target pests

Pine processionary moth (Thaumetopoea pityocampa), Rice borer (Spodoptera frugiperda), Lobesia botrana, Eupoecilia ambiguella, Cydia pomonella, Capua/Pandemis, Pieris brassicae

Formulation

Unspecified formulation

OECD registration

France, Switzerland

Manufacturer

Natural Plant Protection

Manufacturer location

France

More information

<http://www.wisard.org/wisard/shared/asp/generalinfoserver/intermediate.asp?InstitutionID=7120>

Label

Not available online

Biobit HP WP

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops

Blackberry, Raspberry, Blueberry, Cranberry, Currant, Grape, Strawberry, Citrus, Almond, Chestnut, Filbert, Pecan, Walnut, Pome fruit, Apple, Pear, Stone fruit, Cherry, Quince, Apricot, Nectarine, Peach, Plum, Prune, Pomegranate, Tropical fruit, Banana, Persimmon, Pineapple, Kiwi, Basil, Dill, Hops, Oregano, Thyme, Pumpkin, Watermelon, Eggplant, Pepper, Tomato, Cucumber, Squash, Broccoli, Brussels sprout, Cabbage, Cauliflower, Collard, Chinese cabbage, Kale, Kohlrabi, Endive, Lettuce, Yautia, Garlic, Leek, Onion, Radish, Shallot, Sweet potato, Mustard, Parsley, Spinach, Carrot, Potato, Corn, Sweet corn, Lentil, Sunflower, Alfalfa, Rice, Small grains, Canola, Bean, Beet, Horseradish, Turnip, Barley, Oat, Wheat, Sugarcane, Tobacco, Avacado, Celery, Cotton, Mint, Peppermint, Peanut, Pea, Sorghum, Sugar beet, Soybean, Hay, Forage crops, Fruit trees, Fruit, Rapeseed, Herbs, Vegetable crops, Rangeland, Wheat, Forest trees, Stored herbs, Ornamental woody shrubs, Ornamental shade trees, Sugar maple

Target pests

Leafroller, Headmoth, Rindworm complex, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, Thecla thecla basilides, Gummosis, Oleander caterpillar, California oakworm, Peach twig borer, Spanworm, Cankerworm, Fall cankerworm, Elm spanworm, Spring cankerworm, Omnivorous looper, Banana skipper, Essex skipper (European skipper), Tent caterpillar, Saddleback caterpillar, Douglas fir tussock moth, Tussock moth, Browntail moth, Gypsy moth, Cotton leaf perforator, Cutworm, Cotton leafworm, Spotted cutworm, Velvetbean caterpillar, Sorghum headworm, Tobacco budworm, Podworm, Cotton bollworm, Tomato fruitworm, Variegated cutworm, Green cloverworm, Roughskinned cutworm, Armyworm, Soybean looper, Citrus cutworm, Heliothis, Walnut caterpillar, Azalea caterpillar, Saddled prominent, Redhumped caterpillar, Orangedog, Alfalfa caterpillar, Artichoke plume moth, Southern cornstalk borer, European corn borer, Pine butterfly, Imported cabbageworm, Bagworm, Sod webworm, Almond moth, Grape leaffolder, Melonworm, Pickleworm, Tropical sod webworm, Lo moth, Tobacco moth, Indian meal moth, Greenstriped mapleworm, Elio moth, Hornworm, Achemon sphinx, Western avacado leafroller, Fruittree leafroller, Orange tortrix, Tortrix moth, Redbanded leafroller, Spruce budworm, Jackpine budworm, Obliquebanded leafroller, Variegated leafroller, Omnivorous leaftier, Blueberry leafroller, Omnivorous leafroller, Filbert leafroller, Tufted apple bud moth, Blackheaded budworm, Cherry fruitworm, Codling moth, Grape berry moth, Grapeleaf skeletonizer, Diamondback moth, Mimosa webworm

Formulation

WP

OECD registration

United States, unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=07304900050&DIST_NR=073049

Label

Not available online

Bioprotec

Bacillus thuringiensis subsp. kurstaki strain HD-1

Insecticide

Bacterium

Label crops

Sweet corn, Raspberry, Asian radish, Bok choy, Broccoli, Brussels sprouts, Cabbage, Cauliflower, Celery, Chinese cabbage, Chinese broccoli, Collard, Kale, Lettuce, Mustard greens, Parsley, Potato, Spinach, Turnip green, Tomato, Herbs and spices (celery seed, parsley (dried), mustard seed, nasturtium, basil, caraway, catnip, chervil (dried), coriander, dill, fennel, mint), Orchard fruits (apple, apricot, cherry, peach, pear, plum/prune), Tobacco, Blueberry, Ornamental urban trees, Cranberry, Sunflower, Red raspberry, Corn (sweet, field), Succulent common bean (green, yellow/wax, snap, string), Sweet pepper, Cucumber, Chrysanthemum, Rose, Rangeland, Timothy mixtures, Forage grass, Forest, Woodland, Tree plantation, Tree nursery, Woodlot, Cottage area, Urban area, Residential area, Industrial area, Municipal park, Provincial park, Ornamental plantation, Seed orchard, Shade trees, Treed areas

Target pests

Cabbage looper, Diamondback moth, Imported cabbageworm, Tomato fruitworm, Hornworm, European corn borer, Leafrollers (fruittree, European, obliquebanded, three-lined), Fruitworm, Winter moth, White marked tussock moth, Green spanworm, Brown spanworm, Obliquebanded leafroller, Essex skipper (European skipper), Range caterpillar (Hemileuca), Tomato hornworm, Omnivorous leafroller, Gypsy moth, Eastern spruce budworm, Western spruce budworm, Jackpine budworm, Forest tent caterpillar, Eastern hemlock looper, Bagworm, Elm spanworm, Fall spanworm, Spring cankerworm, Fall cankerworm, Satin moth, Rangeland caterpillar, Sunflower moth, Early and late season oblique banded leafrollers, Pine budworm

Formulation

3P Dustless powder, CAF Liquid, HP Liquid, XHP Liquid

OECD registration

Canada

Manufacturer

AEF Global Inc.

Manufacturer location

Canada

More information

http://www.aefglobal.com/bioprotec_3p_eng.htm (3P Dustless powder)

http://www.aefglobal.com/bioprotec_caf_eng.htm (CAF Liquid)

<http://www.aefglobal.com/anglais.htm> (HP Liquid and XHP Liquid)

Label

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=6325 (3P Dustless powder)

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=10386 (CAF Liquid)

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=3816 (HP Liquid)

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=10767 (XHP Liquid)

BMP 123

Bacillus thuringiensis subsp. kurstaki strain BMP 123

Insecticide

Bacterium

Label crops

Corn, Tobacco, Small fruit, Grape, Citrus, Nut trees, Pome fruit, Stone fruit, Tropical fruit, Banana, Mango, Papaya, Persimmon, Pomegranate, Kiwi, Hops, Cucurbit, Melon, Cucumber, Squash, Fruiting vegetables, Leafy vegetables, Greens (Brassica spp.), Cole crops, Artichoke, Leafy amaranth, Root crop vegetables, Lentil, Okra, Cereal crops, Tobacco, Safflower, Canola, Avacado, Cotton, Mint, Peanut, Sunflower, Vegetable crops, Legumes, Pastures, Forage crops, Rangeland, Rapeseed, Forest trees, Ornamental herbaceous bedding plants, Ornamental flowering plants, Ornamental plants, Ornamental woody shrubs, Ornamental shade trees, Sugar maple, Berry plantings, Seed vegetables, Pod vegetables, Grass, Jojoba, Ornamental trees

Target pests

Tobacco budworm, Fall armyworm, Southwestern corn borer, European corn borer, Leafroller, Rindworm complex, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, Oleander moth, California oakworm, Cankerworm, Fall cankerworm, Elm spanworm, Spring cankerworm, Omnivorous looper, Banana skipper, Essex skipper (European skipper), Tent caterpillar, Eastern tent caterpillar, Forest tent caterpillar, Saddleback caterpillar, Douglas fir tussock moth, Western tussock moth, Browntail moth, Gypsy moth, Cotton leaf perforator, Cutworm, Cotton leafworm, Spotted cutworm, Velvetbean caterpillar, Podworm, Cotton bollworm, Green fruitworm, Green cloverworm, Armyworm, Citrus cutworm, Heliothis, Walnut caterpillar, Azalea caterpillar, Saddled prominent, Redhumped caterpillar, Orangedog, Alfalfa caterpillar, Pine butterfly, Imported cabbageworm, Bagworm, Artichoke plume moth, Grape leafroller, Grape leaffolder, Melonworm, Pickleworm, lo moth, Range caterpillar, Ello moth, Hornworm, Achemon sphinx, Fruittree leafroller, Orange tortrix, Redbanded leafroller, Spruce budworm, Jackpine budworm, Variegated leafroller, Omnivorous leafroller, Blueberry leafroller, Filbert leafroller, Tufted apple bud moth, Blackheaded budworm, Cherry fruitworm, Grape berry moth, Grapeleaf skeletonizer, Diamondback moth, Mimosa webworm

Formulation

10 G, 2x WP, 48 LC (Soluble concentrate), 64 ES (EC)

OECD registration

United States, Australia (2X WP, 48 LC, 64 ES only), Spain (2X WP, 48 LC, 64 ES only), France (2X WP and 48 LC only), Italy (2X WP and 48 LC only), New Zealand (2X WP and 48 LC only)

Manufacturer

Becker Microbial Products Inc.

Manufacturer location

United States

More information

http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=06263700008&DIST_NR=062637 (10 G)
http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=06263700005&DIST_NR=062637 (2x WP)
http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=06263700006&DIST_NR=062637 (48 LC)
http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=06263700010&DIST_NR=062637 (64 ES)

Label

Not available online

Bonide Dipel 150 Dust

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Broccoli, Cabbage, Cauliflower, Collard, Celery, Melon, Potato, Spinach, Cucumber, Turnip Greens, Grape, Small fruits, Cane, Bushberry, Tobacco, Tomato, Pepper, Eggplant, Lawns, Flowers

Target pests

Diamondback moth, Hornworm, Cabbage looper, Melonworm, Webworm, Green cloverworm, Looper, Imported cabbageworm, Omnivorous leafroller, Grape leaffolder, Grapeleaf skeletonizer, Tomato, Fruitworm, Variegated cutworm, Saltmarsh caterpillars, Armyworms, Sod webworm, Tobacco budworm, Omnivorous looper, Elio moth (hornworm), Io moth, Oleander moth

Formulation

RTU Powder

OECD registration

United States

Manufacturer

Bonide Products Inc.

Manufacturer location

United States

More information

<http://www.bonideproducts.com/>

Label

<http://www.bonideproducts.com/labels/pdf/dipel150.pdf>

Britz Bt Dust

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops

Grape, Melon, Tomato, Broccoli, Cabbage, Cauliflower, Collard, Kale, Lettuce, Mustard greens, Spinach, Turnip, Potato, Celery, Cotton

Target pests

Tobacco budworm, Cotton bollworm, Cabbage looper, Imported cabbageworm, Grape leafroller, Tomato hornworm, Omnivorous leafroller

Formulation

Powder

OECD registration

United States

Manufacturer

Britz Fertilizers Inc.

Manufacturer location

United States

More information

<http://www.britzinc.com>

Label

Not available online

Bt 320 Dust

Bacillus thuringiensis subsp. kurstaki SA-11 solids, spores, and toxins

Insecticide

Bacterium

Label crops

Broccoli, Cabbage, Cauliflower, Celery, Collard, Cotton, Grape (California), Kale, Lettuce, Melon, Mustard greens, Potato, Spinach, Tomato, Turnip greens

Target pests

Cabbage looper, Imported cabbageworm, Tobacco budworm, Cotton bollworm, Grape leafroller, Omnivorous leaf roller, Tomato hornworm

Formulation

Powder

OECD registration

United States

Manufacturer

Wilbur Ellis Company

Manufacturer location

United States

More information

<http://www.wilbur-ellis.com>

Label

Not available online

Costar

Bacillus thuringiensis subsp. *kurstaki*

Insecticide

Bacterium

Label crops

Apple, Pear, Avacado, Banana, Citrus, Blueberry, Caneberry, Currant, Kiwi fruit, Grape, Almond, Apricot, Cherry, Filbert, Nectarine, Peach, Pecan, Persimmon, Pistachio, Plum, Pomegranate, Prune, Walnut, Cotton, Artichoke, Asparagus, Bean (green, lima, mung), Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cardoon, Carrot, Cauliflower, Celeriac, Celery, Chickpeas, Chinese broccoli, Chinese cabbage, Collard, Cucumber, Dry bulb onion, Eggplant, Garlic, Green onion, Greens (dandelion, turnip, mustard, beet, China), Herbs (basil, cilantro, dill, oregano, thyme), Horseradish, Kale, Kohlrabi, Leek, Lettuce (endive, romaine, head lettuce, escarole, butter crunch, leaf), Melons (cantaloupe, crenshaw, honeydew, muskmelon, watermelon), Okra, Onion, Parsley, Parsnip, Pea, Pepper, Potato, Pumpkin, Radish, Rutabaga, Salsify, Spinach, Squash (summer, winter), Sweet corn, Sweet potato, Swiss chard, Table beets, Tomato, Turnip root, Watercress, Yams, Alfalfa (hay, seed), Sudan grass, Tobacco, Forage crops, Canola, Evening primrose, Dry bean, Dry pea, Lentils, Mint, Peanut, Rice, Safflower, Soybean, Sugar beet, Sunflower, Sorghum, Corn (field, popcorn, seed), Hops, Strawberry, Shade trees, Ornamentals flowers (roses), Turf, Grass seed, Grain

Target pests

Alfalfa caterpillar, Almond moth, Armyworm, Beet armyworm, Artichoke plume moth, Bagworm, Banana skipper, Blueberry leafroller, Blueberry spanworm, Bollworm, California oak moth, Cherry fruitworm, Citrus cutworm, Codling moth, Corn Earworm, Cotton leafworm, Cotton leaf perforator, Cutworm, Diamondback moth, Douglas fir tussock moth, Elm spanworm, European corn borer, Fall cankerworm, Fall webworm, Filbert webworm, Fruit tree leafroller, Grape leafroller, Grapeleaf skeletonizer, Green cloverworm, Green fruitworm, Gypsy moth, Helicoverpa spp., Heliothis spp. Hornworm, Imported cabbageworm, Jackpine budworm, Loopers, Mimosa webworm, Navel orangeworm, Obliquebanded leafroller, Omnivorous leafroller, Omnivorous leaf-tier, Orangedog, Orange tortrix, Oriental fruit moth, Peach twig borer, Pecan nut casebearer, Redbanded leafroller, Redhumped caterpillar, Rindworm, Roughskinned cutworm, Saltmarsh caterpillar, Sod webworm, Southwestern corn borer, Spotted cutworm, Spring cankerworm, Spruce budworm, Tent caterpillar, Tobacco budworm, Tobacco fruitworm, Tomato pinworm, Tropical sod webworm, Tufted apple bud moth, Variegated leafroller, Velvetbean caterpillar, Western tussock moth

Formulation

Granular

OECD registration

France, Greece, Turkey, Australia, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/costar-biological-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/CoStar-label-102204.pdf>

Crymax

Bacillus thuringiensis subsp. kurstaki strain EG7841

Insecticide

Bacterium

Label crops

Vegetable and cole crops (artichoke, arugala, asparagus, beans, beets, Bok Choy, broccoli, Brussels sprouts, cabbage, cardoni, carrot, cauliflower, celeriac, celery, chickpea, chicory, Chinese cabbage, collards, cucumber, cucurbits, dry bulb onion, eggplant, escarole, endive, garlic, green onion, greens (beets, China, dandelion, mustard, turnip), horseradish, kale, kohlrabi, leek, lentil, lettuce (head, leaf, romaine), malanga, melons (cantaloupe, crenshaw, honeydew, muskmelon, watermelon), napa, okra, onion, parsley, parsnips, peas, pepper, potato, pumpkin, radishes, rutabaga, salsify, shallots, soybean foliage, spinach, squash, sugar beet, sweet potato, Swiss chard, tomato, turnip), Herbs and spices (basil, chives, cilantro, dill, oregano, peppermint, thyme), Pasture and hay crops (alfalfa (hay and seed), pasture (grasses, hay), silage), Pome and stone fruit trees (apple, apricot, cherry, nectarine, peach, pear, plum, prune, quince), Nut trees (almond, chestnut, filbert, pecan, pistachio, walnut), Citrus, Small fruit and berries (blackberry, blueberry, boysenberry, cranberry, currant, loganberry, raspberry, strawberry), Grapes, Tropical fruit (banana, kiwi, persimmons, pomegranate, pineapple), Field crops (canola/rape seed, evening primrose, meadow foam, corn (field, sweet, popcorn, seed), cotton, hops, jojoba, peanuts, rice, safflower, small grains (barley, oat, rye, wheat), sorghum, soybean, sunflower, tobacco), Flowers and ornamental plants (bedding plants, greenhouse flowers, field flowers, greenhouse ornamentals, greenhouse vegetables, container stock), Forest, Shade trees, Nursery trees, Turf

Target pests

Alfalfa looper, Armyworm, Artichoke plume moth, Beet armyworm, Cabbage budworm, Cabbage looper, Celery leaf-tier, Corn earworm, Cross-striped cabbageworm, Diamondback moth, European corn borer, Green cloverworm, Imported cabbageworm, Melonworm, Omnivorous leafroller, Pickleworm, Rindworm complex, Saltmarsh caterpillar, Soybean looper, Tobacco budworm, Tomato fruitworm, Tomato hornworm, Tomato pinworm, Velvetbean caterpillar, Yellowstriped armyworm, Green cloverworm, Looper, Beet armyworm, European skipper, Webworm, Spring cankerworm, Fall cankerworm, Cherry fruitworm, Eastern tent caterpillar, Fall webworm, Fruittree leafroller, Green fruitworm, Gypsy moth, Navel orangeworm, Obliquebanded leafroller, Omnivorous leafroller, Oriental fruit moth, Citrus cutworm, Filbert leafroller, Filbert webworm, Fruittree leafroller, Hickory shuckworm, Navel orangeworm, Amorbia, Citrus cutworm, Achemon sphinx moth, Blackheaded fireworm, Blueberry leafroller, Cranberry girdler, Grape berry moth, Gypsy moth, Cherry fruitworm, Grape leaf folder, Grapeleaf skeletonizer, Orange tortrix, Banana skipper, Gummosos-Batrachedra commosae, Thecla-Thecla basilides, Hornworms, Leafrollers, Southwestern corn borer, Bollworm, Cotton leaf perforator, Omnivorous leaf-tier, Spotted cutworm, Looper (Anacamptodes sp.), Green cloverworm, Podworm, Velvetbean caterpillar, Banded sunflower moth, Headmoth, Sunflower moth, Tobacco hornworm, Ello moth (hornworm), Florida fern caterpillar, lo moth, Oleander moth, Bagworm, Browntail moth, California oakworm, Douglas fir tussock moth, Elm spanworm, Greenstriped mapleworm, Jackpine budworm, Mimosa webworm, Pine butterfly, Redhumped caterpillar, Saddleback caterpillar, Saddle prominent caterpillar, Spruce budworm, Tent caterpillar, Tortrix, Western tussock moth, Sod webworm, Tropical sod webworm

Formulation

WDG

OECD registration

United States, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location	United States
More information	http://www.certisusa.com/products/crymax-bioinsecticide.htm
Label	http://www.certisusa.com/pdf-labels/Crymax-Bio-label-052505.pdf

Delfin

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Garlic, Green onion, Greens (dandelion, turnip, mustard, beet, China), Herbs (basil, cilantro, dill, oregano, thyme), Horseradish, Kale, Kohl Rabi, Leek, Lettuce (endive, romaine, head lettuce, escarole, butter crunch, leaf), Melons (cantaloupe, crenshaw, honeydew, muskmelon, watermelon), Okra, Parsley, Parsnip, Pea, Pepper, Potato, Pumpkin, Radish, Rutabaga, Salsify, Spinach, Squash (summer, winter), Sweet corn, Sweet potato, Swiss chard, Table beets, Tomato, Turnip root, Watercress, Yams, Alfalfa (hay, seed), Sudan grass, Hay crops, Forage crops, Canola, Evening primrose, Dry bean, Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybean, Sugar beet, Sunflower, Sorghum, Corn (field, pop, seed), Hops, Jojoba, Small grains, Artichoke, Asparagus, Beans (green, lima, mung), Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cardoon, Carrot, Cauliflower, Celeriac, Celery, Chickpea, Chinese broccoli, Chinese cabbage, Collards, Cucumber, Dry bulb onion, Eggplant, Tobacco, Cotton, Apple, Pear, Avacado, Banana, Citrus, Blueberry, Caneberry, Currant, Kiwi, Grape, Almonds, Apricot, Cherry, Filbert, Nectarine, Peach, Pecan, Persimmon, Plum, Pomegranate, Prune, Walnut, Strawberry, Shade trees, Ornamental plants (roses), Turf, Grass seed, Stored soybean, Grains

Target pests

Alfalfa caterpillar, Almond moth, Artichoke plume moth, Bagworm, Banana skipper, Bertha armyworm, Blueberry leafrollers, Blueberry spanworm, Bollworm, California oak moth, Cherry fruitworm, Citrus fruitworm, Codling moth, Cotton leaf perforator, Cotton leafworm, Cutworm, Diamondback moth, Douglas fir tussock moth, Elm spanworm, European corn borer, Fall cankerworm, Fall webworm, Filbert webworm, Fruittree leafroller, Grape leaf folder, Grapeleaf skeletonizer, Green cloverworm, Green fruitworm, Gypsy moth, Helicoverpa spp., Heliothis spp., Hornworm, Imported cabbageworm, Jackpine budworm, Looper, Mimosa webworm, Navel orangeworm, Obliquebanded leafroller, Omnivorous leafroller, Omnivorous leaf tier, Orange tortrix, Orangedog, Oriental fruit moth, Pandemis leafroller, Peach twig borer, Pecan nut casebearer, Redbanded leafroller, Redhumped caterpillar, Rindworm complex, Roughskinned cutworm, Saltmarsh caterpillar, Sod webworm, Southwestern corn borer, Spotted cutworm, Spring cankerworm, Spruce budworm, Tent caterpillar, Tobacco budworm, Tobacco hornworm, Tomato pinworm, Tropical sod webworm, Tufted apple bud moth, Variegated leafroller, Velvetbean caterpillar, Western tussock moth

Formulation

WG

OECD registration

France, Netherlands

Manufacturer

Certis USA, LLC

Manufacturer location

France

More information

<http://www.certisusa.com/products/javelin-biological-insecticide.htm>

Label

Not available online

Deliver

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Apple, Pear, Avacado, Banana, Citrus, Blueberry, Caneberry, Currant, Kiwi, Grape, Almond, Apricot, Cherry, Filbert, Nectarine, Peach, Pecan, Persimmon, Pistachio, Plum, Pomegranate, Prune, Walnut, Cotton, Artichoke, Asparagus, Beans (green, lima, mung), Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Cardoon, Carrots, Cauliflower, Celeriac, Celery, Chickpea, Chinese broccoli, Chinese cabbage, Collards, Cucumbers, Dry bulb onion, Eggplant, Garlic, Green onion, Greens (dandelion, turnip, mustard, beet, China), Herbs (basil, cilantro, dill, oregano, thyme), Horseradish, Kale, Kohl Rabi, Leek, Lettuce (endive, romaine, head lettuce, escarole, butter crunch, leaf), Melon (cantaloupe, crenshaw, honeydew, muskmelon, watermelon), Okra, Onion, Parsley, Parsnips, Peas, Pepper, Potato, Pumpkin, Radish, Rutabaga, Salsify, Spinach, Squash (summer, winter), Sweet corn, Sweet potato, Swiss chard, Table beets, Tomato, Turnip root, Watercress, Yam, Alfalfa (hay, deed), Sudan grass, Tobacco, Hay crops, Forage crops, Canola, Evening primrose, Dry beans, Lentil, Mint, Peanut, Rice, Safflower, Soybean, Sugar beet, Sunflower, Sorghum, Corn (field, popcorn, seed), Hops, Strawberry, Shade tree, Ornamental plants (roses), Turf, Grass seed, Stored soybean, Grains

Target pests

Alfalfa caterpillar, Almond moth, Armyworm, Beet armyworm, Artichoke plume moth, Bagworm, Banana skipper, Blueberry leafroller, Blueberry spanworm, Bollworm, California oak moth, Cherry fruitworm, Citrus cutworm, Codling moth, Corn Earworm, Cotton leafworm, Cotton leaf perforator, cutworm, Diamondback moth, Douglas fir tussock moth, Elm spanworm, European corn borer, Fall cankerworm, Fall webworm, Filbert webworm, Fruit tree leafroller, Grape leaf folder, Grapeleaf skeletonizer, Green cloverworm, Green fruitworm, Gypsy moth, Helicoverpa spp., Heliothis spp. Hornworm, Imported cabbageworm, Jackpine budworm, Looper, Mimosa webworm, Navel orangeworm, Obliquebanded leafroller, Omniverous leaftier, Orangedog, Orange tortrix, Oriental fruit moth, Peach twig borer, Pecan nut casebearer, Redbanded leafroller, Redhumped caterpillar, Rindworm, Roughskinned cutworm, Saltmarsh caterpillar, Sod webworm, Southwestern corn borer, Spotted cutworm, Spring cankerworm, Spruce budworm, Tent caterpillar, Tobacco budworm, Tobacco hornworm, Tomato fruitworm, Tomato pinworm, Tropical sod webworm, Tufted apple bud moth, Variegated leafroller, Velvetbean caterpillar, Western tussock moth

Formulation

Granular

OECD registration

United States, Unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/deliver-biological-insecticide.htm>

Label

Not available online

Dipel

Bacillus thuringiensis subsp. kurstaki strain ABTS-351

Insecticide

Bacterium

Label crops

Alfalfa (hay and seed), Berries and small fruits (grape, strawberry, blackberry), Bulb vegetables (leek, garlic, onion (green and bulb)), Cucurbit vegetables (melon, cucumber, squash), Fruiting vegetables (tomato, pepper, eggplant), Greenhouse/Shadehouse, Outdoor nursery crops (leafy herbs, Brassica, fruiting groups), Herbs, Spices, Mints (basil, chive, dill, peppermint), Leafy and cole crops (lettuce (head and leaf), kale, celery, spinach, broccoli, cabbage, mustard greens, Brussels sprouts, cauliflower, collard, Chinese cabbage, endive, kohlrabi, parsley), Endive, Legume vegetables (bean pea, lentil, soybean), Root and tuber crops (carrot, potato, beet, sugar beet), Stone fruits (cherry, plum, peach, prune, nectarine), Pome fruits (apple, pear), Tree nuts (almond, pecan, walnut, filbert, pomegranate), Small grains (barley, sorghum, wheat, oats), Tropical fruits, Asparagus, Avacado, Banana, Citrus, Corn (sweet, field, seed, popcorn, silage), Cotton, Hop, Kiwi fruit, Malanga, Peanut, Pineapple, Rape (canola), Safflower, Sunflower, Tobacco, Watercress, Flowers, Bedding plants, Ornamentals, Greenhouse/Shadehouse, Turf, Forest trees, Shade trees, Sugar maple trees, Ornamentals, Trees, Cotton, Forage crops, Sunflower (oil seed, confectionery), Shrubs, Rangeland, Berries (blueberry, grape, cranberry, strawberry), Sugarcane, Grains, Crop seed, Condimental seed, Birdseed

Target pests

Looper, Alfalfa caterpillar, European skipper, Armyworm, Grapeleaf skeletonizer, Grape leafroller, Achemon sphinx moth, Saltmarsh caterpillar, Omnivorous leafroller, Orange tortrix, Tobacco budworm, Grape berry moth, Melonworm, Cutworm, Cranberry fruitworm, Gypsy moth, Hornworm, Imported cabbageworm, Diamondback moth, Green cloverworm, Webworm, Cross-stripped cabbageworm, Rindworm complex, Tomato fruitworm, Variegated cutworm, Heliothis, Velvetbean caterpillar, Podworm, Redhumped caterpillar, Tent caterpillar, Fall webworm, Walnut caterpillar, Cankerworm, Redbanded leafroller, Tufted apple bud moth, Fruit tree leafroller, Oriental fruit moth, Oblique banded leafroller, Amorbia moth (Western Avacado Leafroller), Omnivorous looper, Spanworm, Banana skipper, Fruit tree leafroller, Orangedog, Citrus cutworm, Headworm, European corn borer, Cotton bollworm, Gummosos-batrachedra comosae (Hodges), Thecla-thecla basilides (Geyr), Headmoth, Soybean Looper, Webworm, Variegated Leafroller, Filbert Leafroller, Codling Moth, Leafroller, Cherry Fruitworm, Tobacco budworm, Omnivorous looper, Ello moth (Hornworm), Io Moth, Oleander moth, Azalea caterpillar, Sod webworm, Bagworm, Spring cankerworm, Fall cankerworm, Elm spanworm, California oakworm, Pine butterfly, Spruce budworm, Saddle prominent caterpillar, Douglas fir tussock moth, Western tussock moth, Blackheaded budworm, Mimosa webworm, Jackpine budworm, Saddleback caterpillar, Greenstriped mapleworm, Hemlock looper, Southwestern corn borer, Corn earworm, Webworms, Western bean cutworm, European skipper webworm, Sunflower moth, Banded sunflower moth, Browntail moth, Buck moth, Douglas fir tussock moth, Eastern pine looper, Eastern tent caterpillar, Forest tent caterpillar, Oak leaf-tier, Oak skeletonizer, Tortrix, Owleye moth, Hagmoth, Hagworm, Vaquita (Oisphanes sp.), Range caterpillar, Blossom worm, Sparganothis fruitworm, Fireworm, Black cutworm, Oriental fruit moth, Peach twig borer, Peach nut casebearer, Navel orangeworm, Grass looper, Fall armyworm, Sugarcane borer, Indian meal moth (Plodia interpunctella), Almond moth

Formulation

Pro DF, ES (Canada, United States), DF (USA)

OECD registration

United States

Manufacturer Valent Biosciences Corp.

Manufacturer location United States

More information <http://www.valent.com/product.asp?industry=2&segment=VE&crop=Bulb%20Crops&key=5&segname=Vegetable%20Crops> (DF)
<http://www.valent.com/product.asp?industry=2&segment=VE&crop=Legumes&key=4&segname=Vegetable+Crops&sname=DiPeI+DF> (ES)

Label <http://www.cdms.net/LDat/ld4C1002.pdf> (DF)
<http://www.cdms.net/LDat/ld4KK005.pdf> (Pro DF)
<http://www.cdms.net/LDat/ld4C2007.pdf> (ES)

Dipel 2X DF

Bacillus thuringiensis subsp. kurstaki strain HD-1

Insecticide

Bacterium

Label crops

Apple, Broccoli, Cabbage, Cauliflower, Chinese cabbage, Bok choy, Chinese broccoli, Asian radish, Chokeberry, Orchards, Shelterbelt, Collard, Cranberry, Ginseng, Herb, Spice (celery seed, dried parsley, mustard seed, nasturtium, basil, caraway, catnip, dried chervil, coriander, dill, fennel), Mint, Kale, Lettuce, Mustard greens, Nut crops (hazelnut, walnut, sweet chestnut, pecan), Parsley, Pear, Red Raspberry, Spinach, Stone fruit (apricot, cherry, plum/prune), Sunflower, Corn (sweet, field), Timothy, Turnip green, Tobacco, Tomato, Ornamental trees, Shade trees, Rose, Chrysanthemum, Pepper

Target pests

Leafroller (fruittree, European, oblique-banded, three-lined, early season oblique-banded, omnivorous), Winter moth, Cabbage looper, Diamondback moth, Imported cabbageworm, Cabbage looper, Fall webworm, Green spanworm, Brown spanworm, Fruitworm, Sunflower moth, European Corn Borer, Essex (European) skipper, Hornworm, Tomato fruitworm, Tomato hornworm, Spruce budworm, Gypsy moth, Bagworm, Spring cankerworm, Fall cankerworm, Fall webworm, Elm spanworm, Tent caterpillar

Formulation

DF, WG

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com/agricultural_products/agricultural_products_5.asp

Label

<http://www.cdms.net/LDat/ld1MO001.pdf>

Dipel Dust

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Grape, Melon, Cucumber, Tomato, Broccoli, Cabbage, Cauliflower, Collard, Kale, Lettuce, Mustard, Turnip, Potato, Celery

Target pests

Cabbage looper, Imported cabbageworm, Grape leaffolder, Tomato hornworm

Formulation

Powder

OECD registration

United States

Manufacturer

Southern Agricultural Insecticides Inc.

Manufacturer location

United States

More information

<http://www.southernag.com/insecticides.htm>

Label

<http://www.southernag.com/PDF Files/dipel.pdf>

Dipel ES-NT

Bacillus thuringiensis subsp. kurstaki strain HD-1

Insecticide

Bacterium

Label crops

Berry plantings, Small fruit, Blueberry, Cranberry, Grape, Strawberry, Nut trees, Almond, Filbert, Pecan, Walnut, Pome fruit (apple, pear), Stone fruit (cherry, nectarine, peach, plum, prune, pomegranate), Hops, Fruiting vegetables (eggplant, pepper, tomato), Leafy vegetables and cole crops (broccoli, Brussels sprout, cabbage, cauliflower, collard, Chinese cabbage, kale, kohlrabi, endive, lettuce, mustard greens, parsley, spinach, lettuce), Root crop vegetables (carrot, potato, corn, lentil, sunflower, alfalfa, barley, oat), Small grains, Tobacco, Cotton, Peanut, Pea, Sorghum, Sugar beet, Soybean, Vegetable crops, Forage crops, Wheat, Forest trees, Ornamental woody shrubs, Ornamental shade trees, Ornamental trees, Sugar maple, Irrigation supply systems

Target pests

Leafroller, Fireworm, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, California oakworm, Peach twig borer, Peach twig borer, Spanworm, Cankerworm, Fall cankerworm, Elm spanworm, Hemlock looper, Spring cankerworm, Omnivorous looper, Pine looper, Essex skipper (European skipper), Tent caterpillar, Eastern tent caterpillar, Forest tent caterpillar, Saddleback caterpillar, Douglas fir tussock moth, Western tussock moth, Browntail moth, Gypsy moth, Oak skeletonizer, Cutworm, Black cutworm, Velvetbean caterpillar, Cranberry blossomworm, Army cutworm, Tobacco budworm, Corn earworm, Tomato fruitworm, Cotton bollworm, Podworm, Western bean cutworm, Variegated cutworm, Green cloverworm, Armyworm, Soybean looper, Walnut caterpillar, Saddled prominent, Redhumped caterpillar, Banded sunflower moth, Alfalfa caterpillar, Pine butterfly, Imported cabbageworm, Bagworm, Pecan nut casebearer, Southwestern corn borer, Sunflower moth, European corn borer, Navel orangeworm, Range caterpillar, Greenstriped mapleworm, Hornworm, Tobacco hornworm, Western avocado leafroller, Orange tortrix, Tortrix moth, Oak leaf-tier, Spruce budworm, Jackpine budworm, Omnivorous leafroller, Cranberry fruitworm, Sparganothis fruitworm, Tufted apple bud moth, Blackheaded budworm, Oriental fruit moth, Codling moth, Buckmoth, Diamondback moth, Mimosa webworm

Formulation

EC

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=07304900030&DIST_NR=073049

Label

Not available online

Dipel WP

Bacillus thuringiensis subsp. kurstaki strain HD-1

Insecticide

Bacterium

Label crops

Apple, Broccoli, Cauliflower, Collard, Cranberry, Kale, Lettuce, Mustard Green, Parsley, Pear, Red Raspberry, Spinach, Stone fruit (apricot, cherry, peach, plum/prune), Sunflower, Timothy, Turnip green, Tobacco, Tomato, Ornamental trees, Shade trees, Greenhouse (rose, chrysanthemum, tomato, pepper)

Target pests

Leafroller (fruittree, European, oblique banded, three-lined, early season oblique-banded, omnivorous), Winter Moth, Cabbage Looper, Diamondback moth, Imported cabbageworm, Green spanworm, Brown spanworm, Fruitworm, Sunflower moth, Essex (European) skipper, Hornworm, Tomato fruitworm, Tomato hornworm, Spruce budworm, Gypsy moth, Bagworm, Spring cankerworm, Fall cankerworm, Fall webworm, Elm spanworm, Tent caterpillar

Formulation

WP

OECD registration

Canada, United States, Unspecified countries, (sold in Belgium, France and The Netherlands)

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_5.asp

Label

<http://www.cdms.net/LDat/ld1M0000.pdf>

Foray

Bacillus thuringiensis subsp. kurstaki strain HD-1

Insecticide

Bacterium

Label crops

Forests, Shade trees, Ornamentals, Shrubs, Sugar maple trees, Seed, Orchard crops, Ornamental fruit, Nut tree, Citrus trees, Woodlands, Ornamental urban trees, Treed areas, Raspberry, Apple, Pear, Blueberry, Greenhouse crops (pepper, lettuce, cucumber, tomato)

Target pests

Gypsy moth, Asian gypsy moth, Elm spanworm, Spruce budworm, Browntail moth, Douglas fir tussock moth, Coneworm, Buck moth, Tussock moth, Pine butterfly, Bagworm, Leafrollers, Tortrix, Mimosa webworm, Tent caterpillar, Jackpine budworm, Blackheaded budworm, Saddled prominent, Saddleback caterpillar, Eastern hemlock looper, Western hemlock looper, Orangestriped oakworm, Satin moth, Redhumped caterpillars, Spring cankerworm, Fall cankerworm, California oakworm, Fall webworm, Eastern spruce budworm, Western spruce budworm, Forest tent caterpillar, Whitemarked tussock moth, Early season leafrollers (oblique banded, three lined fruit tree and European), Cabbage looper

Formulation

48B FC, 48B AC, 48BA AC

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//public_health_and_forestry/public_health_and_forestry_10.asp

Label

<http://www.cdms.net/Ldat/ld18K001.pdf> (Foray 48 B, United States)

<http://www.cdms.net/LDat/ld5RO003.pdf> (Foray 48B, Canada)

<http://www.cdms.net/LDat/ld3O2002.pdf> (Foray 48BA)

Foray 76B

Bacillus thuringiensis subsp. kurstaki strain ABTS-351

Insecticide

Bacterium

Label crops

Forests, Shade trees, Ornamentals, Shrubs, Sugar maple trees, Ornamental fruit, Nut trees, Citrus trees,

Target pests

Gypsy moth, Elm spanworm, Spruce budworm, Browntail moth, Douglas fir tussock moth, Coneworm, Buck moth, Tussock moth, Pine butterfly, Bagworm, Leafroller, Tortrix, Mimosa webworm, Tent caterpillar, Jackpine budworm, Blackheaded budworm, Saddled prominent, Saddleback caterpillar, Eastern hemlock looper, Western hemlock looper, Orangestriped oakworm, Satin moth, Redhumped caterpillar, Spring cankerworm, Fall cankerworm, California oakworm, Fall webworm, Eastern spruce budworm, Western spruce budworm, Forest tent caterpillar, Whitemarked tussock moth

Formulation

FC

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//public_health_and_forestry/public_health_and_forestry_10.asp

Label

<http://www.cdms.net/LDat/ld18M000.pdf>

Gnatrol

Bacillus thuringiensis subsp. israelensis strain 65-52

Insecticide

Bacterium

Label crops

Ornamental and nursery plantings in greenhouse or potting mixtures (soil), Vegetable plants (tomato, leafy cole crops, cucumber, pepper, eggplant), Agaricus bisporus mushroom

Target pests

Fungus gnat, Mushroom fly (Sciaridae)

Formulation

DG

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com/agricultural_products/agricultural_products_11.asp

Label

<http://www.cdms.net/LDat/ld3N8003.pdf>

Green Light Bt Worm Killer

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops	Tomato, Broccoli, Cauliflower, Collards, Kale, Mustard greens, Turnip greens, Cabbage, Celery, Lettuce, Melons, Grapes, Oranges, Ornamentals, Shade Trees
Target pests	Tomato hornworm, Cabbage looper, Imported cabbageworm, Omnivorous leafroller, Fruit tree leafroller, Orange dog, Spring cankerworm, Fall cankerworm, Fall webworm, Bagworm, Tent caterpillar
Formulation	Liquid (Water based)
OECD registration	United States
Manufacturer	Green Light Company
Manufacturer location	United States
More information	http://www.greenlightco.com/products/LiquidInsecticides.htm
Label	Not available online

Green Light Dipel Dust

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Lettuce, Broccoli, Cabbage, Cauliflower, Collards, Spinach, Turnip Greens, Celery, Beans, Peas, Tomato, Pepper, Eggplant, Cucurbits, Melon, Cucumber, Lawn, Flowers, Ornamentals

Target pests

Loopers, Hornworm, Imported cabbageworm, Diamondback moth, Green cloverworm, Webworm, Armyworms, Tomato fruitworm, Variegated cutworm, Saltmarsh caterpillars, Rindworm complex, Melonworm, Sod webworm, Tobacco budworm, Omnivorous looper, Omnivorous leafroller, Ello moth (Hornworm), lo moth, Oleander moth

Formulation

Powder

OECD registration

United States

Manufacturer

Green Light Company

Manufacturer location

United States

More information

http://www.greenlightco.com/products/_dusts.htm

Label

Not available online

Hi-Yield Dipel Dust

Bacillus thuringiensis subsp. kurstaki lepidopteran active toxins

Insecticide

Bacterium

Label crops

Broccoli, Cabbage, Cauliflower, Collard, Kale, Mustard greens, Turnip, Celery, Lettuce, Melon, Potato, Spinach, Tomato, Cucumber, Tobacco

Target pests

Lepidopterous species, Cabbage looper, Imported cabbageworm, Tobacco hornworm, Tomato hornworm

Formulation

Powder

OECD registration

United States

Manufacturer

Voluntary Purchasing Group Inc.

Manufacturer location

United States

More information

http://www.v-p-g.com/brand_main.asp?brandID=3

Label

http://www.fertilome.com/Labels/HiYield/Dry_Insecticides/HY_Dipel_Dust_Label.pdf

Jackpot

Bacillus thuringiensis subsp. aizawai strain GC-91

Insecticide

Bacterium

Label crops

Cole crops, Terrestrial Chinese vegetables, Terrestrial green leafy vegetables, Celery, Beans, Pea, Tomato, Pepper, Tobacco, Cotton, Terrestrial ornamentals, Flowers, Stone fruits (peach, nectarine, plum, prune, cherry), Tree nuts (almond, filbert, walnut, pecan), Pistachio, Greenhouse vegetables (tomato, cole crops, pepper), Grape, Corn, Terrestrial small fruits and berries, Cranberry, Cucurbits, Potato, Soybean, Pome fruit (apple, pear), Alfalfa, Forage crops, Citrus (orange, grapefruit, tangerine), Sugar beet, Radish, Root crops, Leaves of root vegetables, Tuber vegetables, Herbs, Spices, Peanut, Peppermint, Spearmint, Artichoke, Bulb vegetables (onion, garlic)

Target pests

Looper, Imported cabbageworm, Cross-striped cabbageworm, Diamondback moth, Armyworm, Beet armyworm, Saltmarsh caterpillar, Green cloverworm, Velvetbean caterpillar, Tomato fruitworm, Hornworm, Tobacco budworm, Cotton bollworm, Budworm, Twig borer, Navel orangeworm, Codling moth, Gypsy moth, Fruitworm, Grapeleaf skeletonizer, European corn borer, Spanworm, False armyworm, Cutworm, Blossom worm, Rindworm complex, Melonworm, Soybean looper, Podworm, Pandemis leafroller, Tufted apple bud moth, Red banded leafroller, Oblique banded leafroller, Alfalfa caterpillar, Orangedog, Citrus cutworm, Artichoke plume moth

Formulation

WP

OECD registration

United States, Unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/jackpot-biological-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/Jackpot-WP-label-020607.pdf>

Javelin

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Garlic, Green onion, Greens (dandelion, turnip, mustard, beet, China), Herbs (basil, cilantro, dill, oregano, thyme), Horseradish, Kale, Kohlrabi, Leek, Lettuce (endive, romaine, head lettuce, escarole, butter crunch, leaf), Melons (cantaloupe, crenshaw, honeydew, muskmelon, watermelon), Okra, Onion, Parsley, Parsnips, Peas, Pepper, Potato, Pumpkin, Radish, Rutabaga, Salsify, Spinach, Squash (summer, winter), Sweet corn, Sweet potato, Swiss chard, Table beets, Tomato, Turnip root, Watercress, Yams, Alfalfa (hay, seed), Sudan grass, Hay crops, Forage crops, Canola, Evening primrose, Dry bean, Peas, Lentils, Mint, Peanuts, Rice, Safflower, Soybean, Sugar beet, Sunflower, Sorghum, Corn (field, pop, seed), Hops, Jojoba, Small grains, Artichoke, Asparagus, Beans (green, lima, mung), Broccoli, Broccoli Raab (Rapini), Brussels sprouts, Cabbage, Cardoon, Carrots, Cauliflower, Celeriac, Celery, Chickpea, Chinese broccoli, Chinese cabbage, Collards, Cucumber, Dry bulb onion, Eggplant, Tobacco, Cotton, Apple, Pear, Avacado, Banana, Citrus, Blueberry, Caneberry, Currant, Kiwi, Grape, Almond, Apricot, Cherry, Filbert, Nectarine, Peach, Pecan, Persimmon, Plum, Pomegranate, Prune, Walnut, Strawberry, Shade trees, Ornamental plants (rose), Turf, Grass seed, Stored soybean, Grains

Target pests

Alfalfa caterpillar, Almond moth, Artichoke plume moth, Bagworm, Banana skipper, Bertha armyworm, Blueberry leafroller, Blueberry spanworm, Bollworm, California oak moth, Cherry fruitworm, Citrus fruitworm, Codling moth, Cotton leaf perforator, Cotton leafworm, Cutworm, Diamondback moth, Douglas fir tussock moth, Elm spanworm, European corn borer, Fall cankerworm, Fall webworm, Filbert webworm, Fruittree leafroller, Grape leafroller, Grapeleaf skeletonizer, Green cloverworm, Green fruitworm, Gypsy moth, Helicoverpa spp., Heliothis spp., Hornworm, Imported cabbageworm, Jackpine budworm, Looper, Mimosa webworm, Navel orangeworm, Obliquebanded leafroller, Omnivorous leafroller, Omnivorous leaf-tier, Orange tortrix, Orangedog, Oriental fruit moth, Pandemis leafroller, Peach twig borer, Pecan nut casebearer, Redbanded leafroller, Redhumped caterpillar, Rindworm complex, Roughskinned cutworm, Saltmarsh caterpillar, Sod webworm, Southwestern corn borer, Spotted cutworm, Spring cankerworm, Spruce budworm, Tent caterpillar, Tobacco budworm, Tobacco hornworm, Tomato pinworm, Tropical sod webworm, Tufted apple bud moth, Variegated leafroller, Velvetbean caterpillar, Western tussock moth

Formulation

WG

OECD registration

United States, Unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/javelin-biological-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/Javelin-WG-label-120604.pdf>

Lepinox

Bacillus thuringiensis subsp. kurstaki strain EG7826 toxin

Insecticide

Bacterium

Label crops

Artichoke, Arugala, Asparagus, Beans, Bok choy, Broccoli, Brussels sprouts, Cabbage, Cardoni, Carrots, Cauliflower, Celeriac, Celery, Chickpea, Chicory, Chinese cabbage, Collards, Cucumber, Dry bulb onion, Eggplant, Escarole, Endive, Garlic, Green onion, Greens (dandelion, turnip, mustard, beet, China), Horseradish, Kale, Kohl Rabi, Leeks, Lentils, Lettuce (romaine, head, leaf), Malanga, Melons (cantaloupe, crenshaw, honeydew, muskmelon, watermelon), Herbs and spices (basil, chives, cilantro, dill, oregano, peppermint, thyme), Pasture and hay crops (alfalfa (hay, seed), Pasture (grasses, hay), Silage, Citrus, Small fruit and berries (blackberry, blueberry, boysenberry, cranberry, currant, loganberry, raspberry, strawberry, grape), Tropical fruits (avacado, banana, kiwi, persimmons, pomegranate, pineapple), Pome and stone fruit (apple, apricot, cherry, nectarine, peach, pear, plum, prune, quince), Nut trees (almond, chestnut, filbert, pecan, pistachio, walnut), Canola/rape seed, Evening primrose, Meadow foam, Corn (field, sweet, popcorn, seed), Cotton, Hops, Jojoba, Peanuts, Rice, Safflower, Small grains (barley, oats, rye, wheat), Sorghum, Soybean, Sunflower, Tobacco, Bedding plants, Flowers (greenhouse, field), Greenhouse ornamentals, Greenhouse vegetables, Container stock, Forest tree, Shade trees, Nursery trees, Turf

Target pests

Alfalfa looper, Armyworm, Artichoke plume moth, Beet armyworm, Cabbage looper, Cabbage budworm, Celery leaf-tier, Corn earworm, Cross-striped cabbageworm, Diamondback moth, European corn borer, Fall armyworm, Green cloverworm, Imported cabbageworm, Melonworm, Omnivorous leafroller, Pickleworm, Rindworm complex, Saltmarsh caterpillar, Soybean looper, Tobacco budworm, Tobacco hornworm, Tomato pinworm, Velvetbean caterpillar, Yellowstriped armyworm, Looper, Alfalfa caterpillar, European skipper, Fall armyworm, Webworm, Spring cankerworm, Fall cankerworm, Cherry fruitworm, Eastern tent caterpillar, Fall webworm, Fruittree leafroller, Green fruitworm, Gypsy moth, Navel orangeworm, Obliquebanded leafroller, Omnivorous leafroller, Oriental fruit moth, Pandemis leafroller, Peach twig borer, Redbanded leafroller, Redhumped caterpillar, Tortrix moth (orange, garden), Tufted apple budmoth, Variegated leafroller, Walnut caterpillar, Western tent caterpillar, Citrus cutworm, Filbert leafroller, Filbert webworm, Fruittree leafroller, Hickory shuckworm, Navel orangeworm, Obliquebanded leafroller, Pecan nut casebearer, Roughskinned cutworm, Western tent caterpillar, Amorbia, Orangedog, Achemon sphinx moth, Blackheaded fireworm, Blueberry leafroller, Cranberry girdler, Fruittree leafroller, Grape berry moth, Grapeleaf skeletonizer, Spanworm, Banana skipper, Gummosos-Batrachedra commosae, Thecla-thecla basilides, Hornworms, Leafrollers, Southwestern corn borer, Bollworm, Cotton leaf perforator, Spotted cutworm, Podworm, Banded sunflower moth, Headmoth, Sunflower moth, Azalea moth, Ello moth, Florida fern caterpillar, lo moth, Bagworm, Browntail moth, California oakworm, Douglas fir tussock moth, Elm spanworm, Greenstriped mapleworm, Jackpine budworm, Mimosa webworm

Formulation

WDG

OECD registration

United States, Unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/lepinox-wdg-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/Lepinox-WDG-label-052005.pdf>

Milkyspore

Bacillus popillae

Insecticide

Bacterium

Label crops	Ornamental flowering plants, Ornamental lawns, Domestic dwellings, Pasture lands, Home garden, Vineyards, Fruit trees, Farms, Berry farms, Cranberry farms
Target pests	Japanese beetle
Formulation	RTU
OECD registration	United States
Manufacturer	St. Gabrielle Laboratories
Manufacturer location	United States
More information	www.milkyspore.com/milkyspore.htm
Label	Not available online

Mosquito Dunk

Bacillus thuringiensis subsp. israelensis serotype H-14

Insecticide

Bacterium

Label crops

Animal feeding/watering equipment, Domestic dwellings (outdoor), Swimming pool water, Ditches, Evaporative cool pads, Birdbath water, Waste water systems, Water treatment ponds, Standing water, Polluted water, Rain pools, Pools (woodland), Rain barrels, Gutters, Sewage disposal areas, Waste areas

Target pests

Mosquito, Drain fly, Filter fly, Psychodid fly

Formulation

Pellet, Tablet

OECD registration

United States, Canada

Manufacturer

Summit chemical co.

Manufacturer location

United States

More information

<http://www.summitchemical.com/products.aspx>

Label

<http://www.summitchemical.com/labels/MOSQUITO DUNK LABEL.pdf>

Novodor

Bacillus thuringiensis subsp. tenebrionis strain NB 176

Insecticide

Bacterium

Label crops Elm trees, Tomato, Potato, Eggplant, Shade trees, Ornamentals

Target pests Colorado potato beetle, Elm leaf beetle

Formulation FC

OECD registration Canada, United States, Unspecified countries

Manufacturer Valent Biosciences Corp.

Manufacturer location United States

More information http://www.valentbiosciences.com//agricultural_products/agricultural_products_8.asp

Label <http://www.cdms.net/LDat/ld1LO005.pdf>

Prolong

Bacillus thuringiensis subsp. kurstaki strain BMP 123

Insecticide

Bacterium

Label crops

Berry plantings, Small fruit, Grape, Citrus, Nut tree, Pome fruit, Stone fruit, Tropical fruit, Banana, Mango, Papaya, Pawpaw, Persimmon, Pomegranate, Kiwi, Hops, Cucurbit, Melon, Cucumber, Squash, Fruiting vegetables, Leafy vegetables, Cole crops, Artichoke, Leafy amaranth, Root crop vegetables, Root crops, Lentil, Okra, Grass, Cereal crops, Tobacco, Safflower, Rapeseed, Canola, Jojoba, Avacado, Cotton, Mint, Peanut, Sunflower, Legume, Pasture, Rangeland, Forest trees, Ornamental plants, Ornamental flowering plants, Ornamental turf, Ornamental woody shrubs, Ornamental shade trees, Sugar maple

Target pests

Leafroller, Rindworm complex, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, Oleander moth, California oakworm, Peach twig borer, Cankerworm, Fall cankerworm, Elm spanworm, Spring cankerworm, Omnivorous looper, Banana skipper, Essex skipper (European skipper), Tent caterpillar, Eastern tent caterpillar, Forest tent caterpillar, Saddleback caterpillar, Douglas fir tussock moth, Western tussock moth, Browntail moth, Gypsy moth, Cotton leaf perforator, Cutworm, Cotton leafworm, Spotted cutworm, Velvetbean caterpillar, Tobacco budworm, Podworm, Cotton bollworm, Corn earworm, Tomato fruitworm, Green fruitworm, Green cloverworm, Armyworm, Citrus cutworm, Heliothis, Walnut caterpillar, Azalea caterpillar, Saddled prominent, Redhumped caterpillar, Orangedog, Alfalfa caterpillar, Pine butterfly, Imported cabbageworm, Bagworm, Sod webworm, Grape leafroller, Grape leaffolder, Melonworm, Pickleworm, lo moth, Range caterpillar, Ello moth, Hornworm, Achemon sphinx, Western avacado leafroller, Fruittree leafroller, Orange tortrix, Redbanded leafroller, Spruce budworm, Jackpine budworm, Obliquebanded leafroller, Variegated leafroller, Omnivorous leafroller, Blueberry leafroller, Filbert leafroller, Tufted apple bud moth, Blackheaded budworm, Cherry fruitworm, Filbert webworm, Grape berry moth, Grapeleaf skeletonizer, Diamondback moth, Mimosa webworm

Formulation

WP

OECD registration

Korea, United States. Registration pending in Greece.

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://greenbiotech.en.ecplaza.net/>

Label

Not available online

Safer Bt Caterpillar Killer

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops

Tomato, Cole crops, Lettuce, Spinach, Avacado, Celery, Peanut, Pea, Vegetable crops, Ornamental woody shrubs, Ornamental trees

Target pests

Cabbageworm, Webworm, Fall cankerworm, Spring cankerworm, Tent caterpillar, Gypsy moth, Cabbage looper, Bagworm, Tomato hornworm, Budworm

Formulation

Concentrate, Garden dust

OECD registration

Canada, United States

Manufacturer

Woodstream Corp.

Manufacturer location

United States

More information

<http://www.saferbrand.com/instructions/caterpillar.asp>

Label

http://www.woodstreamcorp.com/sales/sales2/catalogs/safer_concern_pf_allpages.pdf

Scutello

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Apple, Pear, Eggplant, Gherkin, Courgette, Cucumber, Melon, Pepper (sweet), Tomato, Red Cabbage, Savoy cabbage, Oxheart cabbage, Sprout, Cauliflower, Broccoli, Chinese cabbage, Ornamental flower crops, Cabbage, White cabbage

Target pests

Butterfly and moth caterpillars (Small winter moth (*Operophtera brumata*), Lackey moth (*Malacosoma neustria*), Fruit moth-apple moth (*Cydia pomonella*), Small ermine moth (*Yponomeuta* spp.), Spring Noctuidae (*Noctuidae*), White butterfly (*Pieris* spp.), White satin (*Leucoma salicis*))

Formulation

Liquid, WP, 2X WP (Spraying powder)

OECD registration

Netherlands (Liquid and WP only), France, Belgium

Manufacturer

BioBest Biological Systems

Manufacturer location

Belgium

More information

<http://207.5.17.151/biobest/en> (Liquid and WP)

<http://207.5.17.151/biobest/en/producten/biopesticiden/bacillus.htm> (2X WP)

Label

Not available online

Security dipel dust

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops	Melon, Cucumber, Tomato, Broccoli, Cabbage, Cauliflower, Collard, Kale, Lettuce, Mustard greens, Spinach, Turnips greens, Potato, Tobacco, Beans, Celery
Target pests	Cabbage looper, Imported cabbageworm, Tomato hornworm, Tobacco hornworm
Formulation	Dust
OECD registration	United States
Manufacturer	Wellmark international
Manufacturer location	United States
More information	http://www.wellmarkinternational.com/home.htm
Label	Not available online

Solbit

Bacillus thuringiensis subsp. aizawai GB413

Insecticide

Bacterium

Label crops

Vegetables

Target pests

Cabbage armyworms, Diamondback moth, Armyworms, Leafroller, Yellow cutworm

Formulation

WP

OECD registration

Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://www.greenfarmer.com/temp/Solbit.htm>

Label

http://www.greenfarmer.com/temp/17_Solbit.pdf

Solbit Chae

Bacillus thuringiensis subsp. aizawai

Insecticide

Bacterium

Label crops

Cabbage

Target pests

Lepidopteran larvae, Cabbage armyworm, Diamondback moth

Formulation

Unspecified formulation

OECD registration

Korea

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://my.ecplaza.net/greenbiotech/profile.asp>

Label

Not available online

Targa WP

Bacillus thuringiensis subsp. kurstaki strain BMP 123

Insecticide

Bacterium

Label crops

Berry plantings, Small fruit, Grape, Citrus, Nut trees, Pome fruit, Stone fruit, Tropical fruit, Banana, Mango, Papaya, Pawpaw, Persimmon, Pomegranate, Kiwi, Hops, Cucurbit, Melon, Cucumber, Squash, Fruiting vegetables, Leafy vegetables, Cole crops, Artichoke, Leafy amaranth, Root crop vegetables, Root crops, Lentil, Okra, Grass, Cereal crops, Tobacco, Safflower, Rapeseed, Canola, Jojoba, Avacado, Cotton, Mint, Peanut, Sunflower, Legumes, Pasture, Rangeland, Forest trees, Ornamental plants, Ornamental flowering plants, Ornamental turf, Ornamental woody shrubs, Ornamental shade trees, Sugar maple

Target pests

Leafroller, Rindworm complex, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, Oleander moth, California oakworm, Peach twig borer, Cankerworm, Fall cankerworm, Elm spanworm, Spring cankerworm, Omnivorous looper, Banana skipper, European skipper, Tent caterpillar, Eastern tent caterpillar, Forest tent caterpillar, Saddleback caterpillar, Douglas fir tussock moth, Western tussock moth, Browntail moth, Gypsy moth, Cotton leaf perforator, Cutworm, Cotton leafworm, Spotted cutworm, Velvetbean caterpillar, Tobacco budworm, Podworm, Cotton bollworm, Corn earworm, Tomato fruitworm, Green fruitworm, Green cloverworm, Armyworm, Citrus cutworm, Heliothis caterpillar, Walnut caterpillar, Azalea caterpillar, Saddled prominent, Redhumped caterpillar, Orangedog, Alfalfa caterpillar, Pine butterfly, Imported cabbageworm, Bagworm, Sod webworm, Grape leafroller, Melonworm, Pickleworm, lo moth, Range caterpillar, Ello moth, Hornworm, Achemon sphinx, Western avacado leafroller, Fruittree leafroller, Orange tortrix, Redbanded leafroller, Spruce budworm, Jackpine budworm, Obliquebanded leafroller, Variegated leafroller, Omnivorous leafroller, Blueberry leafroller, Filbert leafroller, Tufted apple bud moth, Blackheaded budworm, Cherry fruitworm, Filbert webworm, Grape berry moth, Grapeleaf skeletonizer, Diamondback moth, Mimosa webworm

Formulation

WP

OECD registration

United States

Manufacturer

Green Biotech Company Ltd.

Manufacturer location

Korea

More information

<http://my.ecplaza.net/greenbiotech/profile.asp>

Label

Not available online

Teknar HP-D

Bacillus thuringiensis subsp. israelensis strain SA3A

Insecticide

Bacterium

Label crops

Flood water, Rice fields, Pastures, Standing pools, Woodland pools, Snow melt pools, Tidal water salt marshes, Catch basins, Storm water retention areas, Water polluted with sewage, Water with moderate organic content, Water with a high level of suspended solids

Target pests

Mosquito, Blackfly

Formulation

Unspecified formulation

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_10.asp

Label

<http://www.greenbook.net/docs/Label/L74772.PDF> (HP-D)

Teknar

Bacillus thuringiensis subsp. israelensis

Insecticide

Bacterium

Label crops

Ponds, Small lakes, Irrigation pounds/acre, Ditches, Rice fields, Pastures, Woodland pools, Woodland ponds, Snow melt pools, Tidal water, Salt marshes, Catch basins, Storm water retention areas, Sewage treatment pounds/acre areas, Sewage effluent, Sewage lagoons, Oxidation ponds, Septic ditches, Sewage pipes, Animal waste lagoons

Target pests

Mosquito

Formulation

Granule, CG

OECD registration

Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States, Canada, Unspecified countries

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_10.asp

Label

<http://www.cdms.net/LDat/ld6R5000.pdf> (Granular)

Thuricide

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops

Grape, Orange, Walnut, Melon, Watermelon, Cucumber, Tomato, Broccoli, Brussels sprouts, Cabbage, Cauliflower, Collard, Lettuce, Mustard greens, Spinach, Turnip greens, Alfalfa, Tobacco, Beans, Celery, Potato

Target pests

Alfalfa caterpillar, Redhumped caterpillar, Cabbage looper, Omnivorous leafroller, Fruit tree leafroller, Gypsy moth, Rindworm complex, Grape leafroller, Orangedog, Imported cabbageworm

Formulation

Concentrate

OECD registration

United States

Manufacturer

Bonide Products Inc.

Manufacturer location

United States

More information

<http://www.bonideproducts.com/>

Label

<http://www.bonideproducts.com/labels/pdf/btthuricide.pdf>

Thuricide 48 LV

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops

Blueberry, Cranberry, Grape, Strawberry, Almond, Filbert, Pecan, Walnut, Pistachio nut, Apple, Pear, Cherry, Nectarine, Peach, Plum, Prune, Pomegranate, Hops, Cucurbit, Melon, Pepper, Tomato, Cabbage, Chinese cabbage, Carrot, Potato, Corn, Lentil, Alfalfa, Tobacco, Bean, Cotton, Peanut, Pea, Sugar beet, Soybean, Hay, Forage crops, Forest trees, Ornamental shade trees, Ornamental trees

Target pests

Leafroller, Fireworm, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, California oak moth, Peach twig borer, Spanworm, Cankerworm, Fall cankerworm, Elm spanworm, Eastern hemlock looper, Spring cankerworm, Essex/European skipper, Tent caterpillar, Douglas fir tussock moth, Western tussock moth, Gypsy moth, Cutworm, Black cutworm, Velvetbean caterpillar, Cranberry blossomworm, Tobacco budworm, Podworm, Cotton bollworm, Green cloverworm, Armyworm, Soybean looper, Cabbage looper, Walnut caterpillar, Redhumped caterpillar, Alfalfa caterpillar, Pine butterfly, Bagworm, Pecan nut casebearer, Southwestern corn borer, European corn borer, Navel orangeworm, Hornworm, Tomato hornworm, Fruittree leafroller, Spruce budworm, Jackpine budworm, Cranberry fruitworm, Sparganothis fruitworm, Tufted apple bud moth, Oriental fruit moth, Codling moth, Diamondback moth, Mimosa webworm, Budworm

Formulation

FC

OECD registration

United States, Unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=07005100057&DIST_NR=070051

Label

Not available online

Thuricide 48 LV Forestry

Bacillus thuringiensis subsp. kurstaki SA-12

Insecticide

Bacterium

Label crops	Forestry, Ornamental trees, Shade trees, Balsam fir, Christmas tree (Balsam fir, Spruce), Tree nursery, Farm woodlot, Municipal park, Rights of way, Cottage area, Urban area
Target pests	Bagworm, Elm spanworm, Fall spanworm, Gypsy moth, Spring cankerworm, Fall cankerworm, Easter spruce budworm, Western spruce budworm, Jack pine budworm, Forest tent caterpillar
Formulation	AC
OECD registration	United States, Canada, Unspecified countries
Manufacturer	Valent Biosciences Corp.
Manufacturer location	United States
More information	http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=07304900413&DIST_NR=073049
Label	http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=9015

Thuricide HPC – Home and Garden

Bacillus thuringiensis subsp. kurstaki

Insecticide

Bacterium

Label crops

Blackberry, Raspberry, Blueberry, Grape, Strawberry, Orange, Almond, Filbert, Pecan, Walnut, Apple, Pear, Cherry, Nectarine, Peach, Melon, Watermelon, Cucumber, Squash, Eggplant, Pepper, Tomato, Broccoli, Brussels sprout, Cabbage, Cauliflower, Collard, Kale, Kohlrabi, Endive, Lettuce, Mustard greens, Parsley, Spinach, Chard, Turnip, Carrot, Garlic, Onion, Potato, Radish, Lentil, Bean, Beet, Celery, Ornamental flowering plants, Ornamental plants, Ornamental woody shrubs, Ornamental trees, Escarole

Target pests

Cabbageworm, Rindworm complex, Fall webworm, Oleander caterpillar, Tent caterpillar, Gypsy moth, Tomato fruitworm, Cabbage looper, Imported cabbageworm, Grape leaffolder, Tomato hornworm, Fruittree leafroller, Variegated leafroller, Omnivorous leafroller, Filbert leafroller, Tufted apple bud moth, Diamondback moth, Oak moth larvae, Orangedog caterpillar

Formulation

Spray concentrate

OECD registration

United States

Manufacturer

Southern Agricultural Insecticides Inc.

Manufacturer location

United States

More information

<http://www.southernag.com/insecticides.htm>

Label

<http://www.southernag.com/PDF Files/Thur.pdf>

Thuricide HPC

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops

Blackberry, Dewberry, Raspberry, Blueberry, Currant, Grape, Strawberry, Orange, Almond, Filbert, Pecan, Walnut, Apple, Pear, Cherry, Nectarine, Peach, Banana, Kiwi, Melon, Watermelon, Cucumber, Squash, Eggplant, Pepper, Tomato, Broccoli, Brussels sprout, Cabbage, Cauliflower, Collard, Chinese cabbage, Kale, Kohlrabi, Endive (escarole), Lettuce, Mustard greens, Parsley, Spinach, Chard, Turnip, Carrot, Garlic, Onion, Potato, Radish, Lentil, Alfalfa, Grain, Stored grain, Tobacco, Avacado, Bean, Beet, Celery, Cotton, Mint, Peanut, Sugar beet, Soybean, Stored soybean, Forest trees, Ornamental plants, Ornamental trees, Sugar maple, Grain bins (full)

Target pests

Rindworm complex, Fall webworm, Oak moth, Fall cankerworm, Spring cankerworm, Omnivorous looper, Banana skipper, Tent caterpillar, Gypsy moth, Velvetbean caterpillar, Tobacco budworm, Podworm, Cotton bollworm, Tomato fruitworm, Green cloverworm, Roughskinned cutworm, Soybean looper, Cabbage looper, Citrus cutworm, Redhumped caterpillar, Orangedog, Alfalfa caterpillar, Imported cabbageworm, Almond moth, Grape leafroller, Indian meal moth, Tomato hornworm, Tobacco hornworm, Western avacado leafroller, Fruittree leafroller, Orange tortrix, Redbanded leafroller, Variegated leafroller, Omnivorous leafroller, Filbert leafroller, Tufted apple bud moth, Diamondback moth

Formulation

FC

OECD registration

United States, Canada, Unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=07005100052&DIST_NR=070051

Label

Not available online

Turex

Bacillus thuringiensis subsp. aizawai strain GC-91

Insecticide

Bacterium

Label crops

Cole crops, Terrestrial Chinese vegetables, Terrestrial green leafy vegetables, Celery, Beans, Peas, Tomato, Pepper, Tobacco, Cotton, Terrestrial ornamentals, Terrestrial flowers, Stone fruits (peach, nectarine, plum, prune, cherry), Tree nuts (almond, filbert, walnut, pecan), Pistachio, Greenhouse vegetables (tomato, cole crops, pepper), Grapes, Corn, Terrestrial small fruits, Terrestrial small berries, Crabberry, Cucurbits, Potato, Soybean, Pome fruits (apple, pear), Alfalfa, Forage crops, Citrus (grapefruit, tangerine), Sugar beet, Radish, Root crops, Leaves of root, Tuber vegetables, Herbs, Spices, Peanuts, Peppermint, Spearmint, Artichoke, Bulb vegetables, Onions, Garlic

Target pests

Rindworm complex, Fruitworm, Looper, Saltmarsh caterpillar, Spanworm, Gypsy moth, Cutworm, Velvetbean caterpillar, Tobacco budworm, Podworm, Cotton bollworm, Tomato fruitworm, Green cloverworm, Armyworm, Soybean looper, Beet armyworm, False armyworm, Citrus cutworm, Orangedog, Alfalfa caterpillar, Imported cabbageworm, Melonworm, Cross-striped cabbageworm, European corn borer, Navel orangeworm, Hornworm, Redbanded leafroller, Obliquebanded leafroller, Pandemis leafroller, Tufted apple bud moth, Codling moth, Grapeleaf skeletonizer, Diamondback moth, Budworm, Twig borer, Blossom worm

Formulation

WP

OECD registration

Netherlands

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/turex-agree-wp-bioinsecticide.htm>

Label

Not available online

VectoBac (Active Ingredient I)

Bacillus thuringiensis subsp. israelensis serotype H-14 strain HD-14

Insecticide

Bacterium

Label crops

Irrigation ditches, Roadside ditches, Natural marshes, Estuarine areas (Estuaries), Catch basins, Sewage lagoons, Standing water, Temporary and permanent pools in pastures and woodlots, Waters contiguous to fish-bearing water

Target pests

Mosquito, Black fly (streams only)

Formulation

1200L AS, 200 Granular

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_9.asp

Label

<http://www.greenbook.net/docs/Label/L71934.PDF> (1200L AS)

VectoBac (Active Ingredient II)

Bacillus thuringiensis subsp. israelensis strain 65-52

Insecticide

Bacterium

Label crops

Pasture, Roadside ditches, Irrigation ditches, Irrigation supply systems, Waste water systems, Sewage settling ponds, Sewage systems, Lakes, Ponds, Streams, Catch basins, Polluted water, Flood water, Pools, Snow melt pools, Storm water retention areas, Salt marshes, Tidal water margins, Standing ponds, Woodland pools, Rice fields, Standing water containing mosquito larvae, Fields of growing crops (alfalfa, almond, asparagus, corn, cotton, date, grapes, peach, walnut, rice, corn, cotton, sugarcane), Trickling filter system of wastewater, Treatment plants, Shallow lakes, Shallow ponds, Oxidation ponds, Livestock watering ponds and troughs

Target pests

Mosquito, Blackfly, Nuisance midge, Nuisance fly

Formulation

12 AS, CG

OECD registration

Canada, United States, unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_9.asp

Label

<http://www.greenbook.net/docs/Label/L29058.PDF> (12 AS)

VectoBac WDG

Bacillus thuringiensis subsp. israelensis

Insecticide

Bacterium

Label crops

Irrigation ditches, Roadside ditches, Flood water, Standing ponds, Woodland pools, Snow melt pools, Pastures, Catch basins, Storm water retention areas, Tidal water, Salt marshes, Rice fields, Polluted water, Fields (alfalfa, almond, asparagus, corn, cotton, dates, grapes, peach, walnut)

Target pests

Mosquito

Formulation

WDG

OECD registration

Canada, United States, Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_9.asp

Label

<http://www.greenbook.net/docs/Label/L53596.PDF>

VectoLex

Bacillus sphaericus serotype H5a5b strain 2362

Insecticide

Bacterium

Label crops

Wastewater (sewage effluent, sewage lagoons, oxidation ponds, septic ditches, animal waste lagoons, impounded wastewater associated with fruit and vegetable processing), Storm waters/drainage systems (storm sewers, catch basins, drainage ditches, retention, detention, seepage ponds), Marine areas and coastal areas (salt marshes, mangroves, estuaries), Water bodies (natural, manmade aquatic sites such as lakes, ponds, rivers, canals, streams, livestock watering ponds and troughs), Dormant rice fields (impounded water in dormant rice fields), Waste tires (tires stockpiled in dumps, landfills, recycling plants), Rice, Pastures/hay fields, Orchards, Citrus groves, Irrigated crops, Ponds, Lagoons, Water gardens, Hollow trees, Tree holes, Urns, Rain barrels, Livestock watering (troughs, ponds, tanks), Irrigation ditches, Roadside ditches, Flood water, Standing water, Birdbaths, Fountains, Flowerpots, Planters, Snowmelt pools, Abandoned swimming pools, Unused swimming pools, Unused spas, Flooded basements, Pool covers, Gutters, Drains, Wheelbarrows, Garbage cans, Garbage can covers, Discarded tires

Target pests

Mosquito (Culex spp., Aedes vexans, Ochlerotatus melanimon (Aedes melanimon), Ochlerotatus stimulans (Aedes stimulans), Ochlerotatus nigromaculis (Aedes nigromaculis), Psorophora columbiae, Psorophora ferox, Ochlerotatus triseriatus (Aedes triseriatus), Ochlerotatus sollicitans (Aedes sollicitans), Anopheles quadrimaculatus, Coquillettidia perturbans)

Formulation

CG, WDG, WSP

OECD registration

Unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com//agricultural_products/agricultural_products_9.asp

Label

<http://www.greenbook.net/docs/Label/L39438.PDF> (CG)

<http://www.greenbook.net/docs/Label/L47894.PDF> (WDG)

<http://www.greenbook.net/docs/Label/L69934.PDF> (WSP -- US)

<http://www.greenbook.net/docs/Label/L79289.PDF> (WSP -- Canada)

Worm Whipper Bt

Bacillus thuringiensis subsp. kurstaki SA-11

Insecticide

Bacterium

Label crops	Broccoli, Cabbage, Cauliflower, Collard, Kale, Mustard, Turnip
Target pests	Cabbage looper
Formulation	Dust
OECD registration	United States (North Carolina, South Carolina, Virginia)
Manufacturer	Cape Fear Chemicals Inc.
Manufacturer location	United States
More information	http://www.pesticideinfo.org/Detail_Product.jsp?REG_NR=00334200095&DIST_NR=003342
Label	Not available online

Xentari

Bacillus thuringiensis subsp. *aizawai*

Insecticide

Bacterium

Label crops

Berry plantings, Small fruit, Blackberry, Raspberry, Grape, Strawberry, Citrus, Nut trees, Almond, Filbert, Pecan, Walnut, Pome fruit, Apple, Pear, Stone fruit, Cherry, Nectarine, Peach, Plum, Prune, Tropical fruit, Banana, Pineapple, Pomegranate, Kiwi, Spices, Basil, Dill, Hops, Cucurbits, Melon, Cucumber, Squash, Fruiting vegetables, Eggplant, Pepper, Tomato, Leafy vegetables, Greens (Brassica spp.), Leafy vegetables, Beet, Cole crops, Broccoli, Brussels sprout, Cabbage, Cauliflower, Collard, Chinese cabbage, Kale, Kohlrabi, Endive, Artichoke, Mustard greens, Parsley, Spinach, Turnip, Lettuce, Root crop vegetables, Carrot, Chive, Garlic, Leek, Potato, Bean, Corn, Lentil, Stored peanut, Cereal crops, Grain crops, Stored grain, Asparagus, Onion, Alfalfa, Small grains, Tobacco, Safflower, Sunflower, Rapeseed, Avacado, Celery, Cotton, Mint, Peppermint, Peanut, Pea, Sorghum, Sugar beet, Soybean, Fruit, Legumes, Hay, Crop seeds, Forage crops, Herbs, Forest trees, Ornamental herbaceous bedding plants, Ornamental flowering plants, Malanga, Ornamental plants, Ornamental turf, Ornamental shade trees, Sugar maple, Ornamental trees, Birdseed, Bagged grain

Target pests

Leafroller, Headmoth, Rindworm complex, Webworm, Looper, Saltmarsh caterpillar, Fall webworm, Thecla thecla basilides, Batrachedra spp., Gummosis, Oleander moth, California oakworm, Spanworm, Cankerworm, Fall cankerworm, Elm spanworm, Hemlock looper, Spring cankerworm, Omnivorous looper, Banana skipper, Essex skipper (European skipper), Tent caterpillar, Saddleback caterpillar, Douglas fir tussock moth, Western tussock moth, Gypsy moth, Cutworm, Velvetbean caterpillar, Tobacco budworm, Podworm, Cotton bollworm, Tomato fruitworm, Variegated cutworm, Green cloverworm, Armyworm, Soybean looper, Citrus cutworm, Heliothis, Walnut caterpillar, Azalea caterpillar, Saddled prominent, Redhumped caterpillar, Orangedog, Alfalfa caterpillar, Pine butterfly, Imported cabbageworm, Bagworm, Sod webworm, Grape leafroller, Melonworm, Cross-striped cabbageworm, European corn borer, Io moth, Greenstriped mapleworm, Hornworm, Western avacado leafroller, Fruittree leafroller, Orange tortrix, Redbanded leafroller, Spruce budworm, Jackpine budworm, Obliquebanded leafroller, Omnivorous leaftier, Variegated leafroller, Omnivorous leafroller, Filbert leafroller, Tufted apple bud moth, Blackheaded budworm, Oriental fruit moth, Codling moth, Grape berry moth, Grapeleaf skeletonizer, Diamondback moth, Mimosa webworm, Twig borer, Fly, Moth, Oleander caterpillar, Sorghum headworm, Artichoke plume moth, Almond moth, Tobacco moth, Cross-striped cabbageworm, Indian meal moth, Achemon sphinx

Formulation

AS, WDG

OECD registration

United States, unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com/agricultural_products/agricultural_products_6.asp

Label

Not available online

Xentari DF

Bacillus thuringiensis subsp. aizawai strain ABTS-1857

Insecticide

Bacterium

Label crops

Alfalfa (hay, seed), Hay, Forage crops, Berries and small fruit (grapes, strawberry, blackberry, cranberry, raspberry, blueberry), Bulbs (garlic, onion), Cucurbit vegetables (melons, cucumber, squash), Flowers, Bedding plants, Ornamentals, Fruiting vegetable (tomato, pepper, eggplant), Greenhouse/shadehouse and outdoor nursery crops (leafy herbs, Brassica), Herbs, Spices, Mints (basil, chives, dill, leek, peppermint), Leafy and cole crops (lettuce (head, leaf), kale, celery, spinach, broccoli, cabbage, mustard greens, Brussels sprouts, cauliflower, collards, Chinese cabbage, endive, kohlrabi, parsley), Legume vegetables (succulent and dried), Foliage of legume vegetables (beans, peas, lentils, soybean), Root and tuber (artichoke, carrot, potato, beets, sugar beet, garden beet, turnip), Stone fruit (cherry, plum, peach, prune, nectarine), Pome fruit (apple, pear), Tree nuts (almond, pecan, walnut, filbert), Pomegranate, Cereal crops, Tropical fruits, Asparagus, Avacado, Bananas, Canola (rape), Citrus fruits, Corn (sweet, field, seed, popcorn), Cotton, Hops, Kiwi fruit, Malanga, Peanuts, Pineapple, Safflower, Sunflowers, Tobacco, Turf, Watercress, Forest trees, Shade trees, Sugar maple trees, Ornamental trees

Target pests

Looper, Alfalfa caterpillar, Essex skipper (European skipper), Armyworm, Grapeleaf skeletonizer, Grape leafroller, Achemon sphinx moth (hornworm), Saltmarsh caterpillar, Omnivorous leafroller, Orange tortrix, Obliquebanded leafroller, Tobacco budworm, Grape berry moth, Melonworm, Cutworm, Spanworm, Imported cabbageworm, Diamondback moth, Green cloverworm, Webworm, Cross striped cabbageworm, Heliothis, Melonworm, Rindworm complex, Omnivorous looper, Ello moth (hornworm), Io Moth, Oleander moth, Azalea caterpillar, Tomato fruitworm, Variegated cutworm, Soybean looper, Velvetbean caterpillar, Podworm, Redhumped caterpillar, Tent caterpillar, Omnivorous leafroller, Fall webworm, Walnut caterpillar, Cankerworm, Gypsy moth, Variegated leafroller, Redbanded leafroller, Tufted apple budmoth, Fruittree leafroller, Oriental fruit moth, Filbert leafroller, Obliquebanded leafroller, Codling moth, Twig borer, Amorbia moth, Banana Skipper, Orangedog, Citrus cutworm, Headworm, European corn borer, Cotton bollworm, Gummosos-Batrachedra comosae (hodges), Thecla-thecla basilides (Geyr), Sod webworm, Bagworm, Spring cankerworm, Fall cankerworm, Fall webworm, Elm spanworm, California oakworm, Pine butterfly, Spruce budworm, Saddle prominent caterpillar, Douglas fir tussock moth, Western tussock moth, Blackheaded budworm, Mimosa webworm, Jackpine budworm, Saddleback caterpillar, Greenstriped mapleworm, Hemlock looper

Formulation

DF

OECD registration

United States, unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com/agricultural_products/agricultural_products_6.asp

Label

<http://www.cdms.net/LDat/ld4CM007.pdf>

Betel

Beauveria brongniartii

Insecticide

Fungus

Label crops

Sugarcane

Target pests

Sugarcane beetle (Hoplocheus marginalis)

Formulation

Unspecified formulation

OECD registration

France

Manufacturer

Natural Plant Protection

Manufacturer location

France

More information

<http://www.wisard.org/wisard/shared/asp/generalinfoserver/intermediate.asp?InstitutionID=7120>

Label

Not available online

Bio-Cane

Metarhizium anisopliae isolate FI-1045

Insecticide

Fungus

Label crops

New plant cane crops

Target pests

Greyback canegrub (Dermolepida albohirtum)

Formulation

Granules

OECD registration

Australia

Manufacturer

Becker-Underwood Pvt. Ltd.

Manufacturer location

Australia

More information

[http://www.beckerunderwood.com/australia/our_products.asp#BioCane™ Granules](http://www.beckerunderwood.com/australia/our_products.asp#BioCane™_Granules)

Label

http://www.beckerunderwood.com/australia/msds/BioCane_10kg_Label.pdf

Chafer Guard

Metarhizium anisopliae strain F001

Insecticide

Fungus

Label crops

Pasture, Turf

Target pests

Redheaded cockchafer (*Adoryphorus couloni*)

Formulation

Granular

OECD registration

Australia

Manufacturer

Becker-Underwood Inc.

Manufacturer location

Australia

More information

http://www.beckerunderwood.com/australia/our_products.asp#BioGreen™

Label

<http://www.beckerunderwood.com/australia/msds/Chafer Guard 10kg label.pdf>

Botanigard

Beauveria bassiana strain GHA

Insecticide

Fungus

Label crops

Acerola, Arracacha, Arrowroot, Artichoke, Arugula, Asparagus, Atermoya, Balsam pear, Bamboo shoots, Beans (all varieties), Beet, Black-eyed peas, Bok choy, Broccoli, Broccoli raab, Brussels sprouts, Burdock, Cabbage, Cantaloupe, Carambols, Carrots, Casaba melons, Cassava, Catjang, Cauliflower, Celeriac, Celery, Celtuce, Chayote, Chervil, Chickpeas, Chicory, Chinese broccoli, Chinese cabbage, Chinese Gay Lon, Chinese longbean, Chinese mustard, Chinese spinach, Chinese waxgourd, Chrysanthemum (edible), Chufa, Cilantro, Citron melon, Collards, Corn salad, Crenshaw melon, Cress, Cucumber, Dandelion, Dasheen, Daikon, Dock, Edamame, Eggplant, Endive, Escarole, Fennel, Garlic, Gherkin, Ginger, Golden pershaw Melon, Gourds (edible), Groundcherry, Guar, Honey balls, Honeydew melon, Horseradish, Kale, Kohlrabi, Leek, Lentils, Leren, Lettuce, Mango melon, Muskmelon hybrids/ varieties, Mustard greens, New Zealand spinach, Okra, Onion, Orach, Parsley, Parsnip, Peas (all varieties), Pepinos, Pepper (all varieties), Persian melon, Pimento (all varieties), Pineapple melon, Potato, Pumpkin, Purslane, Radish, Radicchio, Rambutan, Rape Greens, Rapini, Rhubarb, Rutabaga, Salsify, Shallot, Snake Melon, Soybeans, Spinach, Squash (summer/winter), Sugar beet, Sweet potato, Swiss chard, Tanier, Tomatillo, Tomatoes, Tumeric, Turnip, Watermelon, Yam, Zucchini, Apple, Apricot, Avacado, Bananas, Blackberry, Blueberry, Boysenberry, Calamondin, Carob, Cherimoya, Cherry (sweet/sour), Chironja, Citrus citron, Citrus hybrids, Coffee, Crabapple, Cranberry, Currant, Dates, Dewberry, Durian, Elderberry, Fejoa, Figs, Gooseberry, Grape (table, raisin, wine), Grapefruit, Guava, Huckleberry, Kiwi, Kumquat, Lemon, Limes, Loganberry, Loquat, Lychee, Mandarin, Mango, Marionberry, Nectarine, Olallie Berry, Olives (all varieties), Orange, Oriental pear, Papaya, Passion fruit, Peach, Pear, Persimmon, Pineapple, Plum, Pomegranate, Prune, Pummelo, Quihuna, Quince, Raspberry, Sour cherry, Strawberry, Sweet cherry, Tangelo, Tangerine, Youngberry, Allspice, Anise, Balm, Basil, Borage, Burnet, Chamomile, Caper buds, Caraway, Cardamom, Catnip, Celery seed, Chervil, Chicory, Chives, Cilantro/coriander, Clary, Coriander, Cinnamon, Costmary, Cumin, Curry Leaf, Dill, Fennel, Fenugreek, Ginseng, Horehound, Hyssop, Mace, Marjoram, Mint, Mustard, Nasturtium, Nutmeg, Oregano, Paprika, Pennyroyal, Pepper (black/white), Peppermint, Rosemary, Rue, Sage, Saffron, Savory, Sesame, Spearmint, Sweet bay leaf, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood, African lily, African violet, Ageratum, Alyssum, Anthurium, Arbor vitea, Ash, Asparagus sprengeri, Aster, Atlas cedar, Azalea, Bald cypress, Balsam fir, Bamboo, Barberry, Beech, Begonia, Birch, Boston fern, Bougainvillea, Boxwood, Bridal veil, Cacti, Caladium, Calceolaria, Calendula, Calla lily, Camella, Camellias, Carissa, Carnation, Ceanothus, Celosia, Chenille plant, Cherro, Christmas cactus, Chrysanthemum, Cinararia, Cleyera, Coleus, Cordyline, Corylusavellana, Cotoneaster, Cottonwood, Crabapple, Crepe myrtle, Crossandra, Croton, Cyclamen, Cypress, Daffodil, Dahlia, Daisy, Delphinium, Deodar cedar, Dichondra, Dieffenbachia, Dogwood, Douglas fir, Dracaena, Dumb cane, Dusty miller, Elm, Eucalyptus, Ferns, Ficus, Fig, Firethorn, Fittonia, Floss Flower, Foliage plants, Forsythia, Freesia, Fuchsia, Gardenia, Geranium, Gerbera, Gerber daisy, Gladiolus, Gloxinia, Grape, Gynura, Gypsophlia, Hackberry, Hawthorne, Hedera, Hemlock, Hibiscus, Hickory, Holly, Honey Suckle, Hop bush, Horsechestnut, Hyacinth, Hydrangea, Iceplant, Imitari, Impatiens, Indian Hawthorn, Iris, Ivy, Japanese aucuba, Japanese barberry, Japanese boxwood, Japanese spindle tree, Japanese yew, Juniper, Kalanchoe, Lantana, Larch, Larkspur, Laurel, Leasianthus, Leatherleaf fern, Linden, Lilac, Lily, Lithodora, Lobelia, Loquat, Magnolia, Mandevilla, Maple, Marigold, Mediterranean fan palm, Mesembryanthemum, Mimosa, Monstera, Mother-in-law plant, Mountain laurel, Myrtle, Nandina, Narcissus, Oak, Oleander, Olive, Orchid, Ornamental kale, Pachysandra, Palms, Pansy, Parasol pine, Pelegonium, Peony, Petunia, Philodendron, Phlox, Photinia, Piggyback, Plant, Pine, Pink, Pittosporum, Planetree, Podocarpus, Poinsettia, Poplar, Pothos ivy, Prayer Plant, Primrose, Privet, Pteris fern, Pyracantha, Rhododendron, Rose, Rubber plant, Salvia, Scabiosa, Schefflera, Schlumbegera, Sedum, Shrub, Verbena, Shrubby cinquefoil, Smoke tree, Snapdragon, Spathiphyllum, Spruce, Stock, Sweet gum, Sweet pea, Sweet William, Sycamore, Syngonium, Taxus, Texas Sage, Tulip, Tulip tree, Verbena, Vibernum, Vinca, Virginia creeper, Walnut, Wandering Jew, Willow, Yew, Yucca, Zinnia, Bermuda grass, Blue grass, Fescue, St. Augustine grass, Zoysia grass

Target pests	Whitefly (banded-winged whitefly, citrus blackfly, citrus whitefly, giant whitefly, greenhouse whitefly, silverleaf whitefly, sweet potato whitefly (tobacco whitefly)), Aphid (bean aphid, cabbage aphid, cowpea aphid, green peach aphid, greenbug, hop aphid, melon aphid, cotton aphid, pea aphid, potato aphid, rose aphid, Russian wheat aphid, spotted alfalfa aphid), Thrip (greenhouse thrip, Cuban laurel thrip, pear thrip, potato thrip, onion thrip, thrip palmi, western flower thrip), Psyllid (pear psylla, tomato psylla, potato psylla), Leafhoppers and plant hoppers (grape leafhopper, leafhopper, plant hopper, potato leafhopper, Virginia creeper, leafhopper, variegated leafhopper), Mealybug (citrus mealybug, grape mealybug, buffalo grass mealybug, longtailed mealybug), Scarab Beetle (Atenius, green June beetle, white grub), Plant Bug (heteroptera) (chinch bug, lace bug), Weevils (black vine weevil, strawberry root weevil, fuller rose weevil, rose curculio, billbug, root weevil)
Formulation	22 WP, ES (Emulsifiable suspension)
OECD registration	Italy, United States, Netherlands, Spain, Denmark (22 WP only), Japan (ES only)
Manufacturer	Emerald Bioagriculture Corp.
Manufacturer location	United States
More information	http://www.laverlamintl.com/productos/botanigard.htm
Label	http://www.laverlamintl.com/pdf/LabelBGard22WP-ED030415.pdf (22WP) http://www.laverlamintl.com/pdf/LabelBGardES-ED030415.pdf (ES)

Engerlingspilz

Beauveria brongniartii

Insecticide

Fungus

Label crops

Meadow, Turf

Target pests

Cockchafer (Melolontha melolontha)

Formulation

Unspecified formulation

OECD registration

Switzerland

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/>

Label

Not available online

Green Guard

Metarhizium anisopliae subsp. acridum isolate FI-985

Insecticide

Fungus

Label crops

Unspecified crops

Target pests

Locust, Wingless grasshopper

Formulation

SC, ULV

OECD registration

Australia

Manufacturer

Becker-Underwood Pvt. Ltd.

Manufacturer location

Australia

More information

[http://www.beckerunderwood.com/australia/our_products.asp#Green Guard™ ULV and Green Guard™ SC](http://www.beckerunderwood.com/australia/our_products.asp#Green_Guard™_ULV_and_Green_Guard™_SC)

Label

[http://www.beckerunderwood.com/australia/msds/Green Guard ULV label.pdf](http://www.beckerunderwood.com/australia/msds/Green_Guard_ULV_label.pdf) (ULV)

[http://www.beckerunderwood.com/australia/msds/Green Guard 600g label.pdf](http://www.beckerunderwood.com/australia/msds/Green_Guard_600g_label.pdf) (SC)

Met52

Metarhizium anisopliae strain F52

Insecticide

Fungus

Label crops Ornamentals, Shrubs, Forests, Shade tree seedlings

Target pests Black vine weevil

Formulation Granular

OECD registration Registration pending United States

Manufacturer Novozymes Biologicals, Inc.

Manufacturer location United States

More information <http://www.met52.com>

Label Not available online

Mycotal

Verticillium lecanii

Insecticide

Fungus

Label crops

Tomato, Cucumber, Runner bean, Broad bean, French bean, Aubergine, Lettuce, Pepper, Ornamental plant production

Target pests

Whitefly, Thrip

Formulation

Solid

OECD registration

Finland, Italy, Japan, Netherlands, Norway, Switzerland, Turkey, United Kingdom, Denmark, Greece, Spain

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=5&lang=e

Label

Not available online

Mycotrol

Beauveria bassiana strain GHA

Insecticide

Fungus

Label crops

Acerola, Arracacha, Arrowroot, Artichoke, Arugula, Asparagus, Atermoya, Balsam pear, Bamboo shoots, Beans (all varieties), Beet, Black-eyed peas, Bok choy, Broccoli, Broccoli raab, Brussels sprouts, Burdock, Cabbage, cantaloupe, Carambols, Carrots, Casaba melons, Cassava, Catjang, Cauliflower, Celeriac, Celery, Celtuce, Chayote, Chervil, Chickpeas, Chicory, Chinese broccoli, Chinese cabbage, Chinese Gai Lon, Chinese longbeans, Chinese mustard, Chinese spinach, Chinese waxgourd, Chrysanthemum (edible), Chufa, Cilantro, Citron melon, Collards, Corn salad, Crenshaw melon, Cress, Cucumber, Dandelion, Dasheen, Daikon, Dock, Edamame, Eggplant, Endive, Escarole, Fennel, Garlic, Gherkin, Ginger, Golden pershaw Melon, Gourds (edible), Groundcherry, Guar, Honey balls, Honeydew melon, Horseradish, Kale, Kohlrabi, Leek, Lentils, Leren, Lettuce, Mango melon, Muskmelon hybrids / varieties, Mustard greens, New Zealand Spinach, Okra, Onion, Orach, Parsley, Parsnip, Peas (all varieties), Pepinos, Pepper (all varieties), Persian melon, Pimento (all varieties), Pineapple melon, Potato, Pumpkin, Purslane, Radish, Radicchio, Rambutan, Rape greens, Rapini, Rhubarb, Rutabaga, Salsify, Shallot, Snake Melon, Soybeans, Spinach, Squash (summer/winter), Sugar beet, Sweet potato, Swiss chard, Tanier, Tomatillo, Tomatoes, Tumeric, Turnip, Watermelon, Yam, Zucchini, Apple, Apricot, Avacado, Banana, Blackberry, Blueberry, Boysenberry, Calamondin, Carob, Cherimoya, Cherry (sweet/sour), Chironja, Citrus Citron, Citrus hybrids, Coffee, Crabapple, Cranberry, Currant, Dates, Dewberry, Durian, Elderberry, Fejoa, Figs, Gooseberry, Grape (table, raisin, wine), Grapefruit, Guava, Huckleberry, Kiwi, Kumquat, Lemon, Limes, Loganberry, Loquat, Lychee, Mandarin, Mango, Marionberry, Nectarine, Olallie Berry, Olives (all varieties), Orange, Oriental Pear, Papaya, Passion Fruit, Peach, Pear, Persimmon, Pineapple, Plum, Pomegranate, Prune, Pummelo, Quihuna, Quince, Raspberry, Sour Cherry, Strawberry, Sweet Cherry, Tangelo, Tangerine, Youngberry, Allspice, Anise, Balm, Basil, Borage, Burnet, Chamomile, Capers buds, Caraway, Cardamom, Catnip, Celery seed, Chervil, Chicory, Chives, Cilantro/coriander, Clary, Coriander, Cinnamon, Costmary, Cumin, Curry leaf, Dill, Fennel, Fenugreek, Ginseng, Horehound, Hyssop, Mace, Marjoram, Mint, Mustard, Nasturtium, Nutmeg, Oregano, Paprika, Pennyroyal, Pepper (black/white), Peppermint, Rosemary, Rue, Sage, Saffron, Savory, Sesame, Spearmint, Sweet bay leaf, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood, African lily, African violet, Ageratum, Alyssum, Anthurium, Arbor vitea, Ash, Asparagus sprengeri, Aster, Atlas cedar, Azalea, Bald cypress, Balsam fir, Bamboo, Barberry, Beech, Begonia, Birch, Boston fern, Bougainvillea, Boxwood, Bridal veil, Cacti, Caladium, Calceolara, Calendula, Calla Lily, Camella, Camellias, Carissa, Carnation, Ceanothus, Celosia, Chenille plant, Cherro, Christmas cactus, Chrysanthemum, Cinararia, Cleyera, Coleus, Cordyline, Corylusavellana, Cotoneaster, Cottonwood, Crabapple, Crepe myrtle, Crossandra, Croton, Cyclamen, Cypress, Daffodil, Dahlia, Daisy, Delphinium, Deodar cedar, Dichondra, Dieffenbachia, Dogwood, Douglas fir, Dracaena, Dumb cane, Dusty miller, Elm, Eucalyptus, Ferns, Ficus, Fig, Firethorn, Fittonia, Floss flower, Foliage plants, Forsythia, Freesia, Fuchsia, Gardenia, Geranium, Gerbera, Gerber daisy, Gladiolus, Gloxinia, Grape, Gynura, Gypsophlia, Hackberry, Hawthorne, Hedera, Hemlock, Hibiscus, Hickory, Holly, Honey suckle, Hop bush, Horsechestnut, Hyacinth, Hydrangea, Iceplant, Imitari, Impatiens, Indian hawthorn, Iris, Ivy, Japanese aucuba, Japanese barberry, Japanese boxwood, Japanese spindle tree, Japanese yew, Juniper, Kalanchoe, Lantana, Larch, Larkspur, Laurel, Leasianthus, Leatherleaf fern, Linden, Lilac, Lily, Lithodora, Lobelia, Loquat, Magnolia, Mandevilla, Maple, Marigold, Mediterranean Fan Palm, Mesembryanthemum, Mimosa, Monstera, Mother-in-law Plant, Mountain laurel, Myrtle, Nandina, Narcissus, Oak, Oleander, Olive, Orchid, Ornamental kale, Pachysandra, Palms, Pansy, Parasol pine, Pelegonium, Peony, Petunia, Philodendron, Phlox, Photinia, Piggyback, Plant, Pine, Pink, Pittosporum, Planetree, Podocarpus, Poinsettia, Poplar, Pothos ivy, Prayer plant, Primrose, Privet, Pteris fern, Pyracantha, Rhododendron, Rose, Rubber plant, Salvia, Scabiosa, Schefflera, Schlumbergera, Sedum, Shrub, Verbena, Shrubby cinquefoil, Smoke tree,

Snapdragon, Spathiphyllum, Spruce, Stock, Sweet gum, Sweet pea, Sweet William, Sycamore, Syngonium, Taxus, Texas Sage, Tulip, Tulip Tree, Verbena, Viburnum, Vinca, Virginia Creeper, Walnut, Wandering Jew, Willow, Yew, Yucca, Zinnia, Bermuda grass, Blue grass, Fescue, St. Augustine grass, Zoysia grass

Target pests

Whitefly (banded-winged whitefly, citrus blackfly, citrus whitefly, giant whitefly, greenhouse whitefly, silverleaf whitefly, sweet potato whitefly (tobacco Whitefly)), Aphid (bean aphid, cabbage aphid, cowpea aphid, green peach aphid, greenbug, hop aphid, melon aphid, cotton aphid, pea aphid, potato aphid, rose aphid, Russian wheat aphid, spotted alfalfa aphid), Thrip (greenhouse thrip, Cuban laurel thrip, pear thrip, potato thrip, onion thrip, thrip palmi, western flower thrip), Psyllid (pear psylla, tomato psylla, potato psylla), Leafhopper and plant hopper (grape leafhopper, leafhopper, plant hopper, potato leafhopper, Virginia creeper, leafhopper, variegated leafhopper), Mealybug (citrus mealybug, grape mealybug, buffalo grass mealybug, longtailed mealybug), Scarab beetle (Atenius, green June beetle, white grubs), Plant bugs (Heteroptera) (chinch bug, lace bug), Weevils (black vine weevil, strawberry root weevil, fuller rose weevil, rose curculio, billbugs, root weevil), Citrus mealybug, Grape mealybug, Psyllid, Potato psyllid, Tomato psyllid, Grasshopper, Mole cricket, Mormon cricket

Formulation

22 WP, ES (Emulsifiable suspension)

OECD registration

United States

Manufacturer

Emerald Bioagriculture Corp.

Manufacturer location

United States

More information

<http://www.laverlamintl.com/zproducts.htm> (WP)

<http://www.laverlamintl.com/productos/mycotroles.htm> (ES)

Label

<http://www.laverlamintl.com/pdf/LabelMycotrolES-ED030415.pdf> (ES)

Mycotrol-O

Beauveria bassiana strain GHA

Insecticide

Fungus

Label crops

Acerola, Arracacha, Arrowroot, Artichoke, Arugula, Asparagus, Atermoya, Avacado, Balsam pear, Bamboo shoots, Beans (all varieties), Beet, Black-eyed peas, Bok choy, Broccoli, Broccoli raab, Brussels sprouts, Burdock, cabbage, Cantaloupe, Carambols, Carrots, Casaba melons, Cassava, Catjang, Cauliflower, Celeriac, Celery, Celtuce, Chayote, Chervil, Chickpeas, Chicory, Chinese broccoli, Chinese cabbage, Chinese Gai Lon, Chinese longbeans, Chinese mustard, Chinese spinach, Chinese waxgourd, Chufa, Cilantro, Citron melon, Collards, Corn salad, Crenshaw melon, Cress, Cucumber, Dasheen, Daikon, Dock, Edamame, Eggplant, Endive, Escarole, Fennel, Garlic, Gherkin, Ginger, Golden pershaw melon, Gourds (edible), Groundcherry, Guar, Honey balls, Honeydew melon, Horseradish, Kale, Kohlrabi, Leek, Lentils, Leren, Lettuce, Mango Melon, Muskmelon hybrids/varieties, Mustard greens, New Zealand spinach, Okra, Onion, Orach, Oriental broccoli, Oriental cabbage, Oriental Gai Lon, Oriental longbeans, Oriental mustard, Oriental spinach, Oriental waxgourd, Parsley, Parsnip, Peas (all varieties), Pepinos, Pepper (all varieties), Persian melon, Pimento (all varieties), Pineapple melon, Potato, Pumpkin, Purslane, Radish, Radicchio, Rambutan, Rape greens, Rapini, Rhubarb, Rutabaga, Salsify, Shallot, Snake melon, Soybeans, Spinach, Squash (summer/winter), Sugar beet, Sweet potato, Swiss chard, Tanier, Tomatillo, Tomatoes, Tumeric, Turnip, Watermelon, Yam, Zucchini, Apple, Apricot, Banana, Blackberry, Blueberry, Boysenberry, Calamondin, Carob, Cherimoya, Cherry (sweet/sour), Chironja, Citrus citron, Citrus hybrids, Coffee, Crabapple, Cranberry, Currant, Dates, Dewberry, Durian, Elderberry, Fejoa, Figs, Gooseberry, Grape (table, raisin, wine), Grapefruit, Guava, Huckleberry, Kiwi, Kumquat, Lemon, Lime, Loganberry, Loquat, Lychee, Mandarin, Mango, Marionberry, Nectarine, Olallie berry, Olives (all varieties), Orange, Oriental pear, Papaya, Passion fruit, Peach, Pear, Persimmon, Pineapple, Plum, Pomegranate, Prune, Pummelo, Quihuna, Quince, Raspberry, Sour cherry, Strawberry, Sweet cherry, Tangelo, Tangerine, Youngberry, Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Filbert, Hickory nut, Macadamia nut, Pecan, Pistachios, Walnut, Alfalfa, Barley, Buckwheat, Clover, Coffee, Corn (field, sweet, pop, silage, seed, corn grown for meal/flour), Cotton, Flax, Hay, Hops, Jojoba, Millet, Oats, Oil seed rape (canola), Peanuts, Potato, Rice, Rye, Safflower, Sorghum, Soybean, Sugarcane, Sunflower, Sweet corn, Sweet potato, Tea, Teosinte, Tobacco, Triticale, Wheat, Wild rice, Allspice, Anise, Balm, Basil, Borage, Burnet, Chamomile, Caper buds, Caraway, Cardamom, Carnations, Catnip, Celery seed, Chervil, Chicory, Chives, Chrysanthemum, Cilantro/Coriander, Cinnamon, Clary, Coriander, Costmary, Cumin, Curry leaf, Dandelion, Dill, Fennel, Fenugreek, Ginseng, Gladiolus, Horehound, Hyssop, Mace, Marigolds, Marjoram, Mint, Mustard, Nasturtium, Nutmeg, Oregano, Pansies, Paprika, Pennyroyal, Pepper (black/white) Peppermint, Rosemary, Roses, Rue, Sage, Saffron, Savory, Sesame, Spearmint, Sweet Bay leaf, Tansy, Tarragon, Thyme, Violets, Wintergreen, Woodruff, Wormwood, African lily, African violet, Ageratum, Alyssum, Anthurium, Arborvitea, Ash, Asparagus Sprengeri, Aster, Atlas cedar, Azalea, Bald cypress, Balsam fir, Bamboo, Barberry, Beech, Begonia, Birch, Boston fern, Bougainvillea, Boxwood, Bridal veil, Cacti, Caladium, Calceolaria, Calendula, Calla lily, Camella, Camellias, Carissa, Carnation, Ceanothus, Celosia, Chenille plant, Cherro, Christmas cactus, Chrysanthemum, Cineraria, Cleyera, Coleus, Cordyline, Corylus avellana, Cotoneaster, Cottonwood, Crabapple, Crepe myrtle, Crossandra, Croton, Cyclamen, Cypress, Daffodil, Dahlia, Daisy, delphinium, Deodar cedar, Dichondra, Dieffenbachia, Dogwood, Douglas fir, Dracaena, dumb cane, Dusty Miller, Elm, Eucalyptus, Ferns, Ficus, Fig, Firethorn, Fittonia, Floss Flower, Foliage plants, Forsythia, Freesia, Fuchsia, Gardenia, Geranium, Gerbera, Gerber daisy, Gladiolus, Gloxinia, Grape, Gynura, Gypsophila, Hackberry, Hawthorn, Hedera, Hemlock, Hibiscus, Hickory, Holly, Honeysuckle, Hop bush, Horsechestnut, Hyacinth, Hydrangea, Iceplant, Imitari, Impatiens, Indian hawthorn, Iris, Ivy, Japanese aucuba, Japanese barberry, Japanese boxwood, Japanese spindle tree, Japanese yew, Juniper, Kalanchoe, Lantana, Larch, Larkspur, Laurel, Lisianthus, Leatherleaf fern, Linden, Lilac, Lily, Lithodora, Lobelia, Loquat, Magnolia, Mandevilla, Maple, Marigold, Mediterranean fan palm, Mesembryanthemum, Mimosa, Monstera, Mother-in-law plant, Mountain laurel, Myrtle, Nandina, Narcissus, Oak, Oleander, Olive, Orchid, Ornamental Kale, Pachysandra, Palms, Pansy, Parasol Pine, Pelargonium, Peony, Petunia, Philodendron, Phlox, Photinia, Piggyback plant, Pine, Pink, Pittosporum, Planetree, Podocarpus, Poinsettia, Poplar, Pothos ivy, Prayer plant, Primrose, Privet,

Pteris fern, Pyracantha, Rhododendron, Rose, Rubber plant, Salvia, Scabiosa, Schefflera, Schlumbergera, Sedum, Shrub verbena, Shrubby cinquefoil, Smoke tree, Snapdragon, Spathiphyllum, Spruce, Stock, Sweet gum, Sweet pea, Sweet William, Sycamore, Syngonium, Taxus, Texas sage, Tulip, Tulip tree, Verbena, Viburnum, Vinca, Virginia creeper, Walnut, Wandering Jew, Willow, Yew, Yucca, Zinnia

Target pests

Orthoptera (grasshopper, mormon cricket, locust, mole cricket), Whitefly (banded-winged whitefly, citrus blackfly, citrus whitefly, giant whitefly, greenhouse whitefly, silverleaf whitefly, sweet potato whitefly (tobacco whitefly)), Aphid (bean aphid, cabbage aphid, cowpea aphid, green peach aphid, greenbug, hop aphid, melon aphid, cotton aphid, pea aphid, potato aphid, rose aphid, Russian wheat aphid, spotted alfalfa aphid), Thrip (greenhouse thrip, Cuban laurel thrip, pear thrip, potato thrip, onion thrip, thrips palmi, western flower thrip), Psyllid (pear psylla, tomato psylla, potato psylla), Mealybug (citrus mealybug, grape mealybug, buffalo grass mealybug, longtailed mealybug), Leafhopper and plant hopper (grape leafhopper, leafhoppers, plant hopper, variegated grape leafhopper, potato leafhopper, Virginia creeper leafhopper), stem-boring lepidoptera (European corn borer, cranberry girdler, lesser cornstalk borer, Southwestern corn borer, sugarcane borer, rice stem borer), Foliage-feeding lepidoptera (diamondback moth, imported cabbageworm, cabbage looper), Leaf-feeding beetles (Colorado potato beetle, cucumber beetle, elm leaf beetle, corn rootworm, flea beetle, bean leaf beetle, cereal leaf beetle), Scarab beetle (Atenius, green June beetle, white grub), Plant bugs (heteroptera) (chinch bugs, tarnished plant bug, lygus bug, seed bug, fleahopper, stink bug, lace bug), Weevil (alfalfa weevil, cotton boll weevil, vegetable weevil, black vine weevil, pecan weevil, strawberry root weevil, fuller rose weevil, plum curculio, apple curculio, rose curculio, sweet potato weevil, billbug, root weevil, pepper weevil, citrus root weevil)

Formulation

ES (Emulsifiable Suspension)

OECD registration

United States

Manufacturer

Emerald Bioagriculture Corp.

Manufacturer location

United States

More information

<http://www.laverlamintl.com/productos/mycotrol.htm>

Label

<http://www.laverlamintl.com/pdf/LabelMycoO-ED030415.pdf>

Naturalis

Beauveria bassiana ATCC 74040

Insecticide

Fungus

Label crops	Yards, Gardens, Pet areas, Flowers, Vegetables, Trees, Fruits, Ornamentals, Lawns
Target pests	Japanese beetle, Chichbug, Mole cricket, Sod webworm, Elateridae
Formulation	LC
OECD registration	Spain, Italy, United States, Mexico, Korea
Manufacturer	Troy Biosciences Inc.
Manufacturer location	United States
More information	http://www.troybiosciences.com/product_plantProtection_naturalisL.asp
Label	Not available online

Ostrinil

Beauveria bassiana

Insecticide

Fungus

Label crops

Maize (corn)

Target pests

Corn borer (*Ostrinia nubilalis*)

Formulation

Unspecified formulation

OECD registration

France

Manufacturer

Natural Plant Protection

Manufacturer location

France

More information

<http://www.wisard.org/wisard/shared/asp/generalinfoserver/intermediate.asp?InstitutionID=7120>

Label

Not available online

PFR-97 20% WDG

Paecilomyces fumosoroseus

Insecticide

Fungus

Label crops	Ornamental plants
Target pests	Mite spp., Whitefly spp., Aphid spp.
Formulation	WDG
OECD registration	United States, unspecified countries
Manufacturer	Certis USA, LLC
Manufacturer location	United States
More information	http://www.certisusa.com/products/pfr-97-microbial-insecticide.htm
Label	http://www.certisusa.com/pdf-labels/PFR-97-WDG-label-052305.pdf

Preferal WG

Paecilomyces fumosoroseus apopka strain 97

Insecticide

Fungus

Label crops

Tomato, Cucumber

Target pests

Greenhouse white fly (*Trialeurodes vaporariorum*)

Formulation

WG

OECD Registration

Belgium, Finland (Tomato, Cucumber, Ornamental), France (*Trialeurodes vaporariorum* and *Bemisia tabaci* on Ornamentals, Tomato, Cucumber), Luxembourg, Netherlands (Ornamentals, Cucumber, Tomatoes), Norway, Poland (Greenhouse tomato, Cucumber, Ornamentals), Sweden

Manufacturer

BioBest Biological Systems

Manufacturer location

Belgium

More information

<http://www.biobest.be/>

Label

Not available online

Tick Ex

Metarhizium anisopliae strain F52 spores

Insecticide

Fungus

Label crops

Ornamental lawns, Domestic dwellings, Institutions

Target pests

Tick

Formulation

EC, Granular

OECD Registration

United States

Manufacturer

Novozymes Biologicals Inc.

Manufacturer location

United States

More information

<http://novozymes.catevo.com/content/section4-1.html>

Label

Not available online

Trichobass-L

Beauveria bassiana

Insecticide

Fungus

Label crops

Cotton, Potato, Banana, Tropical pineapple, Sugarcane, Flowers, Ornamentals, Strawberry, Lettuce, Tobacco, Cabbage

Target pests

Thysanoptera spp., Homopterous spp. (Aleurodidae), Coleopterous spp., Anthonomus grandis, Ancognatha spp., Cosmopolites sordidus, Phyllophaga spp., Castnia, Metamizius spp., Trialeurodes vaporariorum, Bemisia tabaci, Frankliniella occidentalis, Trips tabaci, Tetranychus turquestani, Nasonovia, Black aphid, Faustinus apicalis, Leptophobia spp.

Formulation

Unspecified formulation

OECD registration

Spain, Italy, Turkey

Manufacturer

AMC Chemical/Trichodex

Manufacturer location

Spain

More information

<http://www.amcchemical.com/en/index.html>

Label

Not available online

Trichobass-P

Beauveria bassiana

Insecticide

Fungus

Label crops

Ornamentals, Strawberry, Banana, Tropical pineapple, Tobacco, Cotton

Target pests

Trialeurodes vaporariorum, Bemisia tabaci, Arachnid, Plant louse, Weevil, Tetranychus turquestani, Cosmopolites sordidus, Phyllophaga spp., Faustinus apicalls, Faustinus cubae, Faustinus thombirer, Anthonomus grandis

Formulation

Unspecified formulation

OECD registration

Spain, Italy, Turkey

Manufacturer

AMC Chemical/Trichodex

Manufacturer location

Spain

More information

<http://www.amcchemical.com/en/index.html>

Label

Not available online

Vertalec

Verticillium lecanii

Insecticide

Fungus

Label crops

Tomato, Cucumber, Runner bean, Broad bean, French bean, Aubergine, Lettuce, Pepper, Ornamental plant production

Target pests

Aphid (except the Chrysanthemum aphid: Macrosiphoniella sanborni)

Formulation

Solid

OECD registration

Finland, Japan, Norway, Switzerland, United Kingdom

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=41&lang=e

Label

Not available online

B-Green

Heterorhabditis bacteriophora

Insecticide

Nematode

Label crops

Turf, Ornamentals

Target pests

Garden chafer (*Phyllopertha horticola*), Vine weevil (*Otiorhynchus sulcatus*)

Formulation

Clay

OECD registration

Canada, United States

Manufacturer

BioBest Biological Systems (Distributor)

Manufacturer location

Undisclosed

More information

<http://207.5.17.151/biobest/en/producten/default.htm>

Label

<http://207.5.17.151/biobest/en/productfiches/B-Green.pdf>

Biovector

Steinernema riobravis

Insecticide

Nematode

Label crops

Citrus, Fruit, Nut, Vine crops, Field crops, Row crops, Ornamental trees (dogwood, peach trees, magnolia, clearwig), Turf, Landscape, Nursery, Interioscape, Greenhouse

Target pests

Sugarcane stalk borer (*Diaprepes abbreviatus*), Blue-green citrus weevil (*Pachnaeus opalus*), Citrus root weevil (*Pachnaeus litus*), Fuller rose beetle (*Asynonychus godmanni*), Black vine weevil, Strawberry root weevil, Mole crickets, Tree borers

Formulation

Water dispersible matrix

OECD registration

United States, unspecified countries

Manufacturer

Becker Underwood Inc.

Manufacturer location

United States

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=biovector>

Label

<http://www.beckerunderwood.com/labels/biovector.pdf>

Dickmaulrussler-Nematoden

Heterorhabditis megidis

Insecticide

Nematode

Label crops	Strawberry, Ornamental plants (rhododendron, cherry laurel, cotoneaster, boxwood), Young vine
Target pests	Black vine weevil (<i>Otiorhynchus sulcatus</i>)
Formulation	Vermiculite powder
OECD registration	Austria, Belgium, France, Germany, Netherlands, Spain, Switzerland, United Kingdom
Manufacturer	Andermatt Biocontrol AG
Manufacturer location	Switzerland
More information	http://www.biocontrol.ch/
Label	http://www.biocontrol.ch/export/download.php?a9735121fcc039c7dc9a03af5d6fab7d

Ecomask

Steinernema carpocapsae

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

Pine weevil, Citrus weevil, Black vine weevil, Cutworm, Sod webworm, Girdler, Armyworm, Mole cricket, Weevil grub, Hylobius weevil

Formulation

Bulk liquid suspension, Sprayable, Granular

OECD registration

Sold with no registration required in: Canada, United States

Manufacturer

BioLogic Company

Manufacturer location

United States

More information

<http://www.biologicco.com/products/ecomask.htm>

Label

Not available online

Entonem

Steinernema feltiae

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

Larvae of sciarid flies (Sciaridae)

Formulation

Semi solid paste

OECD registration

Austria, Finland, Mexico, Norway, Sweden, United States (Georgia, Illinois, Louisiane, Michigan, New Mexico, North Carolina, Rhode Island, Texas, Vermont , West Virginia). CFIA approval in Canada. Sold with no registration required in: Germany, United Kingdom, Belgium, France, Italy, Netherlands, Spain, Poland.

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=33&lang=e

Label

Not available online

Heteromask

Heterorhabditis bacteriophora

Insecticide

Nematode

Label crops	Leaves and roots of ornamentals, Strawberry liter and plants, Turf
Target pests	Japanese beetle, Strawberry weevil
Formulation	Sponges, Sprayable
OECD registration	Sold with no registration required in: Canada, United States
Manufacturer	BioLogic Company
Manufacturer location	United States
More information	http://www.biologicco.com/products/heteromask.htm
Label	Not available online

Larvanem

Heterorhabditis bacteriophora

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

Larvae of curculionids (Otiorynchus sulcatus, Hepialus lupulinus)

Formulation

Semi solid paste

OECD registration

Austria, Denmark, Finland, United States (Michigan), Poland. CFIA approval in Canada. Sold with no registration required in: Belgium, Czech Republic, France, Germany, Iceland, Italia, Netherlands, Slovak Republic, Spain

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=32&lang=e

Label

Not available online

Larvanem M

Heterorhabditis megidis

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

Curculionids such as vine weevil (*Otiorhynchus sulcatus*)

Formulation

Semi solid paste

OECD registration

Austria, Denmark, Finland, United States (Michigan), Poland. CFIA approval in Canada. Sold with no registration required in: Czech Republic, Germany, Iceland, Slovak Republic

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=112&lang=e

Label

Not available online

Millenium

Steinernema carpocapsae

Insecticide

Nematode

Label crops

Turf, Ornamentals, Cranberry, Mint, Fruit, Nut, Vine crops

Target pests

Flea larvae, Flea pupae, Billbugs, Annual bluegrass weevils (Hyperodes), Cutworms, Armyworms, Sod webworms, Tropical sod webworms, Chinch bugs, Strawberry root weevil, Black vine weevil, Tree borers, Banana Moth, Giant palmetto weevil, Rotten sugarcane borer, Mint root borer, Root weevil, Mint flea beetle, Navel orangeworm, Codling moth, Cranberry girdler

Formulation

Water dispersible matrix

OECD registration

United States, unspecified countries

Manufacturer

Becker Underwood Inc.

Manufacturer location

United States

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=millenium>

Label

<http://www.beckerunderwood.com/labels/millenium.pdf>

NemaShield

Steinernema feltiae

Insecticide

Nematode

Label crops Ornamental plants (greenhouse)

Target pests Fungus gnat larvae

Formulation Powder, Gel

OECD registration United States

Manufacturer Bioworks Inc.

Manufacturer location United States

More information <http://www.bioworksinc.com/productsections/hortprod.html#nemashield>

Label Not available online

Nemaslug

Phasmarhabditis hermaphrodita

Insecticide

Nematode

Label crops

All ornamental, All food crops

Target pests

Slug

Formulation

Spray drench

OECD registration

Czech Republic, Ireland, Norway, Sweden, Switzerland. Sold in: Belgium, Czech Republic, Denmark, Ireland, France, Germany, Netherlands, Italy, Switzerland, United Kingdom

Manufacturer

Becker Underwood Inc.

Manufacturer location

United Kingdom

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=nemaslug&rsp=n>

Label

Not available online

Nemasys

Steinernema feltiae

Insecticide

Nematode

Label crops

Greenhouse horticulture produce

Target pests

Western flower thrip (*Frankliniella occidentalis*), Fungus gnat (*Bradysia* spp.)

Formulation

Moist gel

OECD registration

Sold with no registration required in: Belgium, Canada, Denmark, Ireland, Finland, France, Germany, Netherlands, Italy, Norway, Spain, United Kingdom, United States

Manufacturer

Becker Underwood Inc.

Manufacturer location

United Kingdom

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=nemasys&rsp=n>

Label

<http://www.beckerunderwood.com/labels/nemasys.html>

Nemasys H

Heterorhabditis megidis

Insecticide

Nematode

Label crops

Shrubs, Perennial flowers, Ornamental trees, Strawberries, Raspberries, Blackcurrants

Target pests

Black vine weevil (*Otiorhynchus sulcatus*)

Formulation

Moist mixture

OECD registration

Sold with no registration required in: Belgium, Canada, Denmark, Ireland, Finland, France, Germany, Netherlands, Italy, Norway, Spain, United Kingdom, United States

Manufacturer

Becker Underwood Inc.

Manufacturer location

United States

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=nemasys&rsp=n>

Label

<http://www.beckerunderwood.com/msds/PDF/NemasysH2250.PDF>

Nemasys L

Steinernema kraussei

Insecticide

Nematode

Label crops

Shrubs, Perennial flowers, Ornamental trees, Strawberry, Raspberry, Blackcurrant

Target pests

Black vine weevil

Formulation

Moist powder

OECD registration

Sold with no registration required in: Belgium, Canada, Denmark, Ireland, Finland, France, Germany, Netherlands, Italy, Norway, Spain, United Kingdom, United States

Manufacturer

Becker Underwood Inc.

Manufacturer location

Canada

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=nemasysl&rsp=n>

Label

<http://www.beckerunderwood.com/labels/NemasysL.pdf>

Nematac S

Steinernema scapterisci

Insecticide

Nematode

Label crops

Turf, Pasture, Golf courses, Sod farms, Sports fields, Lawns

Target pests

Tawny mole cricket (*Scapteriscus vicinus*), Southern mole cricket (*Scapteriscus borellii*)

Formulation

Moist powder

OECD registration

United States, Canada

Manufacturer

Becker Underwood Inc.

Manufacturer location

United States

More information

<http://www.beckerunderwood.com/products/productdisplay.asp?product=NematacS>

Label

<http://www.beckerunderwood.com/labels/nematacs.pdf>

Pronem F

Steinernema feltiae

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

Sciarid, Fungus gnat, Oignon maggot, Carrot rust fly

Formulation

Sponge (Live form)

OECD registration

Sold without registration in Canada

Manufacturer

AEF Global Inc.

Manufacturer location

Canada

More information

http://www.aefglobal.com/en/products_agr.php

Label

Not available online

Pronem M

Heterorhabditis bacteriophora

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

White grubs, Weevil larvae, Coleoptera larvae

Formulation

Sponge (Live form)

OECD registration

Sold without registration in Canada

Manufacturer

AEF Global Inc.

Manufacturer location

Canada

More information

http://www.aefglobal.com/en/products_agr.php

Label

Not available online

Scanmask Bulk

Steinernema feltiae

Insecticide

Nematode

Label crops

Unspecified crops

Target pests

Fungus gnat, Black vine weevil, Cutworm, Sod webworm, Root maggot, Crane fly, White grub

Formulation

Dispersible sprayable, Granular, Bulk (sprayable)

OECD registration

Sold with no registration required in: Canada, United States

Manufacturer

BioLogic Company

Manufacturer location

United States

More information

<http://www.biologicco.com/products/hortscanmask.htm>

Label

Not available online

Scia-Rid

Steinernema feltiae

Insecticide

Nematode

Label crops

Mushroom

Target pests

Larvae of Sciarid flies (Sciaridae)

Formulation

Semi solid paste

OECD registration

Austria, Finland, Mexico, Norway, Sweden, United States (Georgia, Illinois, Louisiane, Michigan, New Mexico, North Carolina, Rhode Island, Texas, Vermont , West Virginia). CFIA approval in Canada. Sold with no registration required in: Belgium, France, Germany, United Kingdom, Italy, Netherlands, Spain, Poland.

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=34&lang=e

Label

Not available online

Terranem

Heterorhabditis bacteriophora

Insecticide

Label crops

Unspecified crops

Target pests

Japanese beetle (*Popillia japonica*), European chafer (*Rhizotrogus majalis*), Asiatic garden beetle (*Maladera castanea*), May beetle, June beetle (*Phyllophaga* spp.), Garden chafer (*Phyllopertha horticola*), Welch chafer (*Hoplia* sp.), Dung beetle (*Aphodius* sp.)

Formulation

Semi solid paste

OECD registration

Austria, Denmark, Finland, United States (Michigan), Poland. CFIA approval in Canada. Sold with no registration required in: Czech Republic, Germany, Iceland, Slovak Republic

Manufacturer

Koppert

Manufacturer location

Netherlands

More information

http://www.koppert.nl/cgi-bin/x031.pl?ktrn_srcID=88&lang=e

Label

Not available online

Traunem

Steinernema feltiae

Insecticide

Nematode

Label crops

Young vegetables, Ornamental plants, Spicy herbs

Target pests

Sciarid larvae (Bradysia paupera)

Formulation

Unspecified formulation

OECD registration

Canada, Denmark, Norway, Netherlands, Sweden, United Kingdom, United States

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/>

Label

Not available online

NOLO bait

Nosema locustae

Insecticide

Protozoan

Label crops

Any crop

Target pests

Grasshopper

Formulation

RTU flaky wheat bran bait

OECD registration

United States, registration pending in Canada

Manufacturer

M&R Durango

Manufacturer location

United States

More information

<http://www.goodbug.com/nolo.html>

Label

Not available online

Semaspore bait

Nosema locustae

Insecticide

Protozoan

Label crops

All field crops

Target pests

Grasshopper

Formulation

Dust

OECD registration

United States

Manufacturer

Planet Natural

Manufacturer location

United States

More information

<http://www.planetnatural.com/site/semaspore-grasshopper-bait.html>

Label

<http://www.planetnatural.com/planetnatural/images/semaspore-label.pdf>

Capex

Adoxophyes orana summer fruit granulosis virus

Insecticide

Virus

Label crops

Pipfruit

Target pests

Summer fruit tortrix (Adoxophyes orana)

Formulation

Liquid

OECD registration

Austria, Germany, Italy, Switzerland

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/export/capex.phtml>

Label

<http://www.biocontrol.ch/export/download.php?1f10cd8404f367a24bbf9c73c3b79b7d>

Carpovirusine

Cydia pomonella granulosis virus

Insecticide

Virus

Label crops

Walnut, Apple, Pear

Target pests

Codling moth (Cydia pomonella)

Formulation

Unspecified formulation

OECD registration

Western Europe (many countries), United States

Manufacturer

Natural Plant Protection / Arvesta

Manufacturer location

France

More information

<http://www.wisard.org/wisard/shared/asp/generalinfoserver/intermediate.asp?InstitutionID=7120>

Label

Not available online

CYD-X

Cydia pomonella granulosis virus

Insecticide

Virus

Label crops

Apple, Pear, Plum, Prune, Walnut

Target pests

Codling moth (Cydia pomonella)

Formulation

AS

OECD registration

United States, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/cyd-x-biological-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/CYD-X-label-020504.pdf>

Gemstar

Polyhedral occlusion bodies of the nuclear polyhedrosis virus of *Helicoverpa zea*

Insecticide

Virus

Label crops

Cucumber, Pepper (bell), Tomato, Broccoli, Cabbage, Cauliflower, Endive (escarole), Lettuce, Onion, Potato, Sweet potato, Corn (sweet, field), Asparagus, Alfalfa, Wheat, Tobacco, Bean, Beet, Celery, Cotton, Peanut, Pea, Sugar beet, Sunflower, Soybean

Target pests

Tobacco budworm, Cotton bollworm, Corn earworm, Tomato fruitworm

Formulation

LC

OECD registration

United States, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/gemstar-biological-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/Gemstar-label-040604.pdf>

Granupom

Cydia pomonella granulosis virus

Insecticide

Virus

Label crops

Apple tree, Pear tree

Target pests

Codling moth (Cydia pomonella)

Formulation

Liquid

OECD registration

Belgium

Manufacturer

BioBest Biological Systems

Manufacturer location

Belgium

More information

<http://www.biobest.be/>

Label

Not available online

Helicovex

Helicoverpa armigera

Insecticide

Virus

Label crops

Barley, Beans, Citrus, Cotton, Cucurbit, Flax, Garlic, Groundnuts, Leak, Maize, Oat Onion, Pea, Pine, Potato, Soybean, Stone fruit, Sunflower, Tobacco, Tomato, Wheat

Target pests

Cotton Bollworm (Helicoverpa armigera)

Formulation

Liquid

OECD registration

Unspecified countries

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/>

Label

<http://www.biocontrol.ch/export/download.php?9fde9558a2ad90d45f064522d304eaa8>

Littovir

Spodoptera littoralis

Insecticide

Virus

Label crops

Cabbage, Cotton, Cowpea, Gourd, Groundnuts, Jute, Lettuce, Maize, Melons, Onion, Pea, Potato, Rice, Soybean, Spinach, Sugar beet, Sugarcane, Tea, Tobacco, Tomato, Wheat

Target pests

Cotton leafworm (Spodoptera littoralis)

Formulation

Liquid

OECD registration

Unspecified countries

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/>

Label

<http://www.biocontrol.ch/export/download.php?3ab4845463e99aa93a5168832ab12c39>

Madex

Cydia pomonella granulosis virus

Insecticide

Virus

Label crops

Apple, Pear, Quince, Walnut, Apricot, Peach, Almond, Kakis, Medlar, Orange

Target pests

Codling moth (Cydia pomonella)

Formulation

Liquid

OECD registration

Austria, Germany, Greece, Italy, Netherlands, New Zealand, Poland, Spain, Switzerland, Turkey, France, Luxembourg,
Registration pending in Australia and Denmark

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/>

Label

<http://www.biocontrol.ch/export/download.php?18305af2df07334de5fe92ae1575375d>

Spexit

Spodoptera exigua

Insecticide

Virus

Label crops

Broad beans, Jute, Potato, Cabbage, Leek, Rice, Citrus, Lettuce, Soybean, Cotton, Maize, Strawberry, Flax, Melons, Sugar beet, Garlic, Onion, Tobacco, Groundnuts, Pea, Tomato

Target pests

Beet armyworm (Spodoptera exigua)

Formulation

Liquid

OECD registration

Unspecified countries

Manufacturer

Andermatt Biocontrol AG

Manufacturer location

Switzerland

More information

<http://www.biocontrol.ch/>

Label

<http://www.biocontrol.ch/export/download.php?e97bf02826d8234a1f7cf3fdb344e531>

Spod-X

Spodoptera exigua

Insecticide

Virus

Label crops

Cucumber, Pepper, Tomato, Broccoli, Cabbage, Cauliflower, Endive (escarole), Lettuce, Onion, Potato, Sweet potato, Corn (sweet, field), Asparagus, Alfalfa, Wheat, Tobacco, Bean, Beet, Celery, Cotton, Peanut, Pea, Sugar beet, Sunflower, Soybean, Saintpaulia, Carnation, Chrysanthemum, Cyclamen, Geranium, Gladiolus, Gypsophila, Gerbera, Azalea, Rose, Bouvardia

Target pests

Beet armyworm (Spodoptera exigua)

Formulation

LC

OECD registration

United States, unspecified countries

Manufacturer

Certis USA, LLC

Manufacturer location

United States

More information

<http://www.certisusa.com/products/spod-x-lc-biological-insecticide.htm>

Label

<http://www.certisusa.com/pdf-labels/Spod-X-label-050304.pdf>

TM Biocontrol-1

Orgyia pseudotsugata

Insecticide

Virus

Label crops Forest land, Woodland, Ornamental

Target pests Douglas fir tussock moth

Formulation Unspecified formulation

OECD registration United States

Manufacturer USDA Forest Service

Manufacturer location United States

More information <http://www.fs.fed.us/>

Label Not available online

Virosoft

Cydia pomonella granulosis virus

Insecticide

Virus

Label crops

Apple, Pear, Plum, Prune, Walnut trees

Target pests

Codling moth (Cydia pomonella)

Formulation

AS

OECD registration

Canada, United States

Manufacturer

BioTepp

Manufacturer location

Canada/United States

More information

<http://www.acornorganic.org/acorn/pdf/26533.pdf>

Label

<http://www.biotepp.com/en/products/docs/CP4label.pdf> (US)

Virtuss

Orgyia pseudotsugata

Insecticide

Virus

Label crops

Forest, Woodland, Ornamental

Target pests

Douglas fir tussock moth

Formulation

WP

OECD registration

Canada

Manufacturer

Terra Nostra

Manufacturer location

Canada

More information

<http://eddenet.pmra-arla.gc.ca/4.0/4.1.2.asp?reg=17786%2E00&page=1&uniqueid=8%2F16%2F2004+6%3A30%3A21+PM>

Label

http://pr-rp.pmra-arla.gc.ca/PR_SOL/pr_web.ve1?p_ukid=4807

Mixtures with inorganic compounds

System 3 (Kodiak AT)

Bacillus subtilis GB03

Mixture with Inorganic - Fungicide

Bacterium

Label crops	Barley, Rice, Wheat, Bean, Corn, Cotton, Peanut, Pea, Soybean
Target pests	Seed rot (Pythium, Rhizoctonia), Seedling rot (Pythium), Seedling disease (Pythium), Seedling blight/rot (Rhizoctonia), Phytophthora spp., Covered smut (Ustilago)
Formulation	Dry powder
OECD registration	United States
Manufacturer	Helena Chemical
Manufacturer location	United States
More information	http://www.helenachemical.com/proprietary/products/seedtreatments/system3/system3.htm
Label	http://www.greenbook.net/docs/Label/L37170.PDF

Britz Bt Sulfur Dust

Bacillus thuringiensis subsp. kurstaki SA-11

Mixture with Inorganic - Multi-spectrum - Insecticide/Fungicide

Bacterium

Label crops	Grape, Melon, Cucumber, Tomato, Broccoli, Cabbage, Cauliflower, Collard, Kale, Lettuce, Mustard greens, Spinach, Turnip, Potato, Tobacco, Celery
Target pests	Powdery mildew of grape (<i>Uncinula necator</i>), Cabbage looper, Imported cabbageworm, Grape leafroller, Hornworm, Omnivorous leafroller
Formulation	Powder
OECD registration	United States
Manufacturer	Britz Fertilizers Inc.
Manufacturer location	United States
More information	http://www.britzinc.com/Home/tabid/61/Default.aspx
Label	Not available online

Bt 320 Sulfur 25 Dust

Bacillus thuringiensis subsp. kurstaki strain ABTS-351

Mixture with Inorganic - Multi-spectrum - Insecticide/Fungicide

Bacterium

Label crops	Broccoli, Cabbage, Collard, Kale, Mustard greens, Cauliflower, Cotton, Celery, Lettuce, Potato, Spinach, Sugar beet, Tomato, Turnip greens, Grape, Grape (California)
Target pests	Omnivorous leafroller, Grape leaffolder, Powdery mildew, Cabbage looper, Imported cabbageworm, Two-spotted mite, Pacific mite, Strawberry mite, Tomato hornworm
Formulation	Powder
OECD registration	United States
Manufacturer	Wilbur Ellis Company
Manufacturer location	United States
More information	http://www.wilbur-ellis.com/WC/product_page.htm
Label	Not available online

Bt 320 Sulfur 50 Dust

Bacillus thuringiensis subsp. kurstaki

Mixture with Inorganic - Multi-spectrum - Insecticide/Fungicide

Bacterium

Label crops	Broccoli, Cabbage, Collard, Kale, Mustard greens, Cauliflower, Cotton, Celery, Lettuce, Potato, Spinach, Sugar beet, Tomato, Turnip greens, Grape, Grape (California)
Target pests	Omnivorous leafroller, Grape leaffolder, Powdery mildew, Cabbage looper, Imported cabbageworm, Two-spotted mite, Pacific mite, Strawberry mite, Tomato hornworm
Formulation	Powder
OECD registration	United States
Manufacturer	Wilbur Ellis Company
Manufacturer location	United States
More information	http://www.wilbur-ellis.com/WC/product_page.htm
Label	Not available online

Bt Sulfur 15-50 Dust

Bacillus thuringiensis Berliner subsp. *kurstaki*

Mixture with Inorganic - Multi-spectrum - Insecticide/Fungicide

Bacterium

Label crops	Grape, Strawberry, Orange, Tomato, Broccoli, Cabbage, Cauliflower, Collard, Kale, Lettuce, Mustard greens, Spinach, Turnip, Potato, Alfalfa, Celery, Cotton
Target pests	Early blight, Early blight of celery, Late blight, Late blight of celery, Septoria apii, Powdery mildew (<i>Erysiphe cichoracearum</i> , <i>Erysiphe/Oidium</i> , <i>Sphaerotheca</i>), Powdery mildew of grape (<i>Uncinula necator</i>), Rust of grape (<i>Physopella ampelopsidis</i>), Rust (<i>Puccinia</i> , <i>Uromyces</i>), Cotton rust (<i>Puccinia</i>), Roughskinned cutworm, Cabbage looper, Orangedog, Alfalfa caterpillar, Imported cabbageworm, Grape leafroller, Tomato hornworm, Fruittree leafroller, Omnivorous leafroller, Diamondback moth
Formulation	Powder
OECD registration	United States
Manufacturer	Loveland Products Inc.
Manufacturer location	United States
More information	http://www.dynagroseed.com/uap/index.cfm?cid=7655
Label	http://www.cdms.net/LDat/ld909004.pdf

Multi-spectrum products

Agri-Mycin 17

Streptomycin sulfate

Multi-spectrum - Fungicide/Bactericide

Bacterium

Label crops	Celery, Philodendron, Tomato, Pepper, Dieffenbachia cuttings, Chrysanthemum, Rose, Pear, Apple, Potato, Tobacco
Target pests	Fire blight, Bacterial blight, Bacterial leaf rot, Bacterial spot, Bacterial stem rot, Bacterial wilt, Crown gall, Soft rot, Blackleg, Wildfire, Blue mold
Formulation	Powder
OECD registration	United States
Manufacturer	Nu Farm Inc.
Manufacturer location	United States
More information	http://www.ag.us.nufarm.com/web/agnufarmcom/agnufarmcomprod.nsf/.nfProductsByBrand/FE442E626E9C1AF2862572F900636C73?openDocument
Label	http://www.cdms.net/LDat/ld315004.pdf

Rhapsody

Bacillus subtilis strain QST 713

Multi-spectrum - Fungicide/Bactericide

Bacterium

Label crops

Alyssum, Aster, Azalea, Begonia, Calla lily, Chrysanthemum, Cyclamen, Dianthus, Dwarf bee-balm, Easter lily, Garden phlox, Geranium, Gerbera, Golden star, Hydrangea, Impatient, Kalanchoe, Lanaria, Lisianthus, Lobelia, Marigolds, Orchids, Pansy, Petunia, Poinsettia, Portulaca, Ranunculus, Roses, Salvia spp., Snapdragons, Stock verbena spp., Vinca, Violas, Zinnias, Aglaonema, Dieffenbachia, Dracaena spp., English ivy, Hibiscus, Leatherleaf, Fern, Spathiphyllum, Boxwood, Crape myrtle, Dogwood, Jumbo azalea, Indian hawthorn, Japanese maple, Ligustrum japonicum, Lilac, Loropetalum, Photinia, Rhododendron, Rosaceae spp., Soft touch holly, Spirea, Deciduous trees, Deciduous shrubs, Conifer production for reforestation, Greenhouse crops, Nursery crops, Turf (bluegrass, Bentgrass, Bermuda grass, (common & hybrid), dichondra, fescue, orchard grass, Poa annua, St. Augustine, ryegrass, Zoysia), Brassica (broccoli, cabbage, cauliflower, Brussels sprouts, collards, kale, mustard greens, kohlrabi), Bulb vegetables (onion, garlic, shallots), Cucurbits (cucumber, cantaloupe, melon, muskmelon, squash, watermelon), Fruiting vegetables (pepper, tomato, eggplant), Herbs, Spices, Leafy vegetables (lettuce, celery, spinach, parsley, radicchio), Root/tuber (carrot, potato, sweet potato, beets, ginger, horseradish, radish, ginseng, turnip), Strawberry

Target pests

Anthraxnose (Colletotrichum spp.), Bacteria (Erwinia spp., Pseudomonas spp., Xanthomonas spp.), Black spot of rose (Diplocarpon rosae), Botrytis (Botrytis cinerea), Downy mildew (Peronospora spp., Pseudoperonospora cubensis, Bremia lactucae), Leaf spots (Alternaria spp., Cercospora spp., Entomosporium spp., Helminthosporium spp., Myrothecium spp., Septoria spp.), Powdery mildew (Erysiphe spp., Oidium spp., Podosphaera spp., Sphaerotheca spp., Phytophthora spp., Leveillula taurica, Oidiopsis taurica), Rust (Puccinia spp.), Scab (Venturia spp.), Rhizoctonia spp., Pythium spp., Fusarium spp., Phytophthora spp., Brown patch (Rhizoctonia solani), Dollar spot (Lanzia spp., Moellerodiscus spp., Sclerotinia homeocarpa), Pin rot complex (Alternaria/Xanthomonas), Bacterial leaf spot (Pseudomonas syringae), Bacterial soft rot (Erwinia/Pseudomonas), Black rot (Xanthomonas campestris, Xanthomonas leaf spot, Xanthomonas campestris), Alternaria leaf spot (Alternaria spp.), Cercospora leaf spot (Cercospora brassicaicola), Southern blight (Sclerotium rolfsii), Botrytis neck rot (Botrytis spp.), Botrytis leaf blight (Botrytis squamosa), Onion purple blotch (Alternaria porri), Onion downy mildew (Peronospora destructor), Gummy stem blight (Phoma cucurbitacearum, Didymella bryoniae), Angular leaf spot (Pseudomonas syringae, Xanthomonas fragariae), Bacterial fruit blotch (Acidovorax avenae), Grey mold (Botrytis spp.), Bacterial spot (Xanthomonas spp.), Target spot (Corynespora cassiicola), Bacterial speck (Pseudomonas syringae pv tomato), Early blight (Alternaria solani), Late blight (Phytophthora infestans), Bacterial blight (Pseudomonas syringae), Alternaria leaf blight (Alternaria spp.), Pink rot (Sclerotinia sclerotiorum), Sclerotinia head and leaf drop (Sclerotinia spp.), Black root rot/black crown rot (Alternaria spp.), Bacterial leaf blight (Xanthomonas campestris)

Formulation

AS

OECD registration

United States

Manufacturer

Agraquest Inc.

Manufacturer location

United States

More information

<http://www.agraquest.com/products/rhapsody/products-solutions/rhapsody.html>

Label

<http://www.agraquestpro.com/products-solutions/labels-msds-pdfs/RhapsodyLabel-51PB-003-050506.pdf>

Rhizo-Plus

Bacillus subtilis FZB24

Multi-spectrum - Fungicide/Bactericide

Bacterium

Label crops	Potato, Corn, Vegetables, Ornamental plants
Target pests	Rhizoctonia solani, Fusarium spp., Alternaria spp., Sclerotinia, Verticillium, Streptomyces scabies
Formulation	Unspecified formulation
OECD registration	Austria, Germany, Switzerland, United States
Manufacturer	FZB Biotechnik GmbH
Manufacturer location	Germany
More information	http://www.fzb-biotechnik.de
Label	Not available online

Serenade

Bacillus subtilis strain QST 713

Multi-spectrum - Fungicide/Bactericide

Bacterium

Label crops

Asparagus, Berries (blueberry, blackberry, raspberry, loganberry, huckleberry, cranberry, gooseberry, elderberry, currant, caneberry, strawberry), Cole crops (broccoli, cabbage, cauliflower, Brussels sprouts, collards, kale, mustard greens, kohlrabi), Bulb vegetables (onion, garlic, shallots), Citrus (orange, grapefruit, lemon, tangerine, tangelo, pummelo), Corn (sweet, popcorn, seed, silage, field), Cucurbits (cucumber, cantaloupe, melon, muskmelon, squash, watermelon), Fruiting vegetables (pepper, tomato, eggplant, groundcherry, tomatillo, okra), Grape, Herbs, Spices, Hop, Leafy vegetables (lettuce, celery, spinach, parsley, radicchio), Legumes/vegetables (succulent beans, dried beans, succulent peas, dried pea, green bean, snap bean, shell bean, soybean, dry bean, garbanzo bean, lima bean, pea, chickpea, split pea, lentils), Mint, Peanut, Pome fruit (apple, crabapple, pear, quince, mayhaw), Root/tuber and corm vegetables (carrot, potato, sweet potato, cassava, beets, ginger, horseradish, radish, ginseng, turnip), Stone fruit (apricot, cherry, nectarine, plum, prune), Tree nuts (almond, pistachio, pecan, walnut, filberts), Tropical fruits (avocado, banana, plantain, mango, papaya, pineapple), Potato, Watercress

Target pests

Botrytis blight (*Botrytis cinerea*), Mummy berry (*Monilinia vaccinii-corymbosi*), Bacterial canker (*Pseudomonas* spp., *Pseudomonas syringae*, *Xanthomonas campestris*), Pin rot complex (*Alternaria/Xanthomonas*), *Xanthomonas* leaf spot (*Xanthomonas campestris*), *Alternaria* leaf spot (*Alternaria* spp., *Alternaria alternata*), Downy mildew (*Peronospora parasitica*, *Peronospora* spp., *Pseudoperonospora cubensis*, *Plasmopara viticola*, *Bremia lactucae*), Powdery mildew (*Erysiphe polygoni*, *Erysiphe cichoracearum*, *Erysiphe* spp., *Sphaerotheca* spp., *Sphaerotheca macularis*, *Sphaerotheca parnosa*, *Leveillula taurica*, *Oidiopsis taurica*, *Uncinula necator*, *Podosphaera leucotricha*, *Podosphaera clandestina*, *Podosphaera* spp.), Botrytis neck rot (*Botrytis* spp.), Botrytis leaf blight (*Botrytis squamosa*), Onion purple blotch (*Alternaria porri*), Onion downy mildew (*Peronospora destructor*), Rust (*Puccinia porri*, *Puccinia sorghi*, *Puccinia menthae*, *Puccinia* spp., *Uromyces appendiculatus*), Greasy spot (*Mycosphaerella citri*), Post bloom fruit drop (*Colletotrichum acutatum*), Scab (*Elsinoe fawcetti*), Melanose (*Diaporthe citri*), Southern corn leaf blight (*Bipolaris maydis*), Helminthosporium maydi (*Cochliobolus heterostrophus*), Gummy stem blight (*Didymella bryoniae*, *Phoma cucurbitacearum*), Bacterial Spot (*Xanthomonas* spp.), Target spot (*Corynespora cassiicola*), Bacterial speck (*Pseudomonas syringae* pv tomato), Early blight (*Alternaria solani*), Late blight (*Phytophthora infestans*), Grey mold (*Botrytis cinerea*, *Botrytis* spp.), Sour rot (*Aspergillus niger*, *Alternaria tenuis*, *Botrytis cinerea*, *Cladosporium herbarum*, *Rhizopus arrhizus*, *Penicillium* spp.), Phomopsis (*Phomopsis viticola*), Eutypa (*Eutypa lata*), Bacterial blight (*Pseudomonas syringae*, *Xanthomonas campestris*), Anthracnose (*Colletotrichum* spp., *Colletotrichum acutatum*, *Colletotrichum gloeosporioides*, *Colletotrichum ananas*), *Alternaria* Leaf Blight (*Alternaria* spp.), Pink rot (*Sclerotinia sclerotiorum*), *Sclerotinia* head and leaf drop (*Sclerotinia* spp.), White mold (*Sclerotinia* stem rot) (*Sclerotinia sclerotiorum*), Early leaf spot (*Cercospora* spp., *Cercospora arachidicola*), Late leaf spot (*Cercosporidium personatum*), Fire blight (*Erwinia amylovora*), Scab (*Venturia* spp., *Cladosporium carpophilum*), Black root rot/black crown rot (*Alternaria* spp.), Bacterial leaf blight (*Xanthomonas campestris*), Fruit brown rot (*Monilinia fruticola*), Walnut blight (*Xanthomonas campestris*), Shot hole (*Wilsonmyces carpophilus*, *Xanthomonas pruni*, *Blumeriella gaapi*, *Cercospora* spp.), Brown rot (*Monilinia* spp.), Sigatoka (*Mycosphaerella fijiensis*), Silver scurf (*Helminthosporium solani*), Sigatoka (*Mycosphaerella* spp.), Brooks spot (*Mycosphaerella pomi*), Cedar apple rust (*Gymnosporangium juniperi-virginianae*), Flyspeck (*Schizothyrium pomi*), Sooty blotch (*Gloeodes pomigena*), Bot rot (*Botryosphaeria dothidea*), Bitter rot (*Colletotrichum* spp.), Bull's eye rot (*Neofabraea* spp.), Anthracnose (*Colletotrichum acutatum*, *Colletotrichum gloeosporioides*), *Cercospora* leafspot (*Cercospora* spp.)

Formulation	Concentrate WP, AS
OECD registration	Japan (grapes, tomatoes, cucurbits), Mexico (tomato), New Zealand (grapes), United States, Italy, France, Turkey, Canada
Manufacturer	Agraquest Inc.
Manufacturer location	United States, Canada
More information	http://www.agraquest.com/products-solutions/serenade-max.html (Concentrate WP) http://www.agraquest.com/products-solutions/serenade-aso.html (AS)
Label	http://www.agraquest.com/products-solutions/labels-msds-pdfs/US010-003-SerenadeMAX-specimen.pdf (Concentrate WP) http://www.agraquest.com/products-solutions/labels-msds-pdfs/SerenadeASO-Label-2005.pdf (AS)

Serenade Garden

Bacillus subtilis strain QST 713

Multi-spectrum - Fungicide/Bactericide

Bacterium

Label crops

Nut crops, Walnut, Apple, Pear, Melon, Pepper, Tomato, Broccoli, Lettuce, Carrot, Onion, Vegetable crops, Fruit, Ornamental flowering plants (annual, perennial), Ornamental foliage plants, Ornamental woody shrubs, Rose, Ornamental trees, Cherry, Cucurbits, Grapes, Leafy vegetables, Garlic, Tropical foliage, Trees, Shrubs, Vegetables, Fruits

Target pests

Anthrachnose (*Colletotrichum* spp.), Bacteria (*Erwinia*, *Pseudomonas*, *Xanthomonas* spp.), Bacterial leaf blight (*Xanthomonas campestris*), Bacterial speck (*Pseudomonas syringae* pv. Tomato), Bacterial spot (*Xanthomonas* spp.), Black mold (*Alternaria alternata*), Black root rot/black crown rot (*Alternaria* spp.), Black spot of rose (*Diplocarpon rosae*), Botrytis (*Botrytis* spp.), Downy mildew (*Bremia lactucae*, *Peronospora* spp., *Plasmopara viticola*), Early blight (*Alternaria solani*), Fire blight (*Erwinia amylovora*), Grey mold (*Botrytis cinerea*), Late blight (*Phytophthora infestans*), Leaf spot and Leaf rust (*Alternaria*, *Cercospora*, *Entomosporium*, *Helminthosporium*, *Myrothecium*, *Septoria*, *Puccinia*, *Phragmidium* spp.), Pin rot (*Alternaria/Xanthomonas* complex), Powdery mildew (*Uncinula necator*, *Erysiphe* spp., *Sphaerotheca* spp., *Oidiopsis taurica*, *Leveillula taurica*, *Podosphaera leucotricha*), Scab (*Venturia* spp.), Walnut blight (*Xanthomonas campestris*), Target spot (*Corynespora cassiicola*)

Formulation

Concentrate, RTU spray

OECD registration

United States, Canada

Manufacturer

Agraquest Inc.

Manufacturer location

United States

More information

<http://www.serenadegarden.com/>

Label

<http://www.serenadegarden.com/labels/pdf/SGDC-RTU-Label.pdf> (RTU spray)

<http://www.serenadegarden.com/labels/pdf/SGDC-CON-Label.pdf> (Concentrate)

Messenger

Erwinia amylovora HrpN harpin protein

Multi-spectrum - Fungicide/Bactericide/Nematicide/Insecticide

Bacterium product

Label crops

Blackberry, Boysenberry, Raspberry, Blueberry, Cranberry, Currant, Grape, Strawberry, Citrus, Grapefruit, Lemon, Lime, Orange, Tangelo, Tangerine, Pummelo, Nut crop, Almond, Filbert, Macadamia nut, Pecan, Walnut, Pistachio nut, Apple, Pear, Stone fruit, Cherry, Nectarine, Peach, Plum, Prune, Banana, Fig, Mango, Papaya, Pineapple, Kiwi, Coffee, Herb, Hops, Cucurbit, Melon, Cucumber, Squash, Eggplant, Pepper, Tomato, Leafy vegetables, Cole crops, Broccoli, Cabbage, Cauliflower, Chinese cabbage, Artichoke, Lettuce, Spinach, Chard, Root crop vegetables, Carrot, Taro, Garlic, Onion, Parsnip, Potato, Radish, Rutabaga, Sweet potato, Yam, Bean, Corn, Pea, Lentil, Asparagus, Onion, Grass, Wheatgrass, Fescue, Orchard grass, Timothy, Brome grass, Alfalfa, Barley, Oat, Rice, Rye, Wheat, Small grains, Sugarcane, Tobacco, Ginseng, Oil crops, Spearmint, Peppermint, Safflower, Sesame, Sunflower, Rapeseed, Canola, Jojoba, Avacado, Beet, Celery, Cotton, Flax, Olive, Peanut, Sorghum, Turnip, Soybean, Legume, Forage crops, Vine fruit, Ornamental flowering plants, Ornamental foliage plants, Aloe, Ornamental plants, Ornamental turf, Bluegrass, Fescue, Ryegrass, Rose, Ornamental trees

Target pests

Fire blight (Erwinia), Sheath blight (Rhizoctonia), Bacterial leaf blight (Xanthomonas), Citrus scab (Elsinoe fawcetti), Apple scab (Venturia inaequalis), Blue mold (Peronospora tabacina), Fusarium wilt, Granville wilt (Bacterial wilt, Pseudomonas solanacearum), Botrytis grey mold (Botrytis cinerea), Botrytis bunch rot, Grey mold rot of fruit (Botrytis cinerea), Black rot of grapes (Guignardia bidwellii), Root rot (Phytophthora), Stem rot (Sclerotium), Plant disease organisms, Black spot of rose (Diplocarpon rosae), Brown spot (Alternaria), Greasy spot (Mycosphaerella citri/Cercospora citrigrisea), Leaf spot (Cercospora), Bacterial speck of tomato (Pseudomonas), Leaf spot (Cercosporidium), Bacterial leaf spot (Xanthomonas), Cucumber mosaic virus, Tobacco mosaic virus, Insects, Cyst nematode, Root-knot nematode

Formulation

Unspecified formulation

OECD registration

Mexico, Spain, United states. Approved in Germany. Exempt from registration in Finland.

Manufacturer

Eden Bioscience

Manufacturer location

United States

More information

http://www.edenbio.com/garden/index.php?option=com_content&task=view&id=33&Itemid=48

Label

http://www.edenbio.com/garden/images/stories/File/PDF_FILES/MessengerH&G_US-label.pdf

Nematicides

BioAct

Paecilomyces lilacinus strain PL 251

Nematicide

Fungus

Label crops

Banana, Black pepper, Citrus, Coffee, Cotton, Okra, Papaya, Peanut, Pineapple, Potato, Ramie, Strawberry, Sugarcane, Tea, Tobacco, Tomato, Legumes, Vegetable crops, Ornamental plants

Target pests

Burrowing nematode (*Radopholus similis*), Root-knot nematode (*Meloidogyne* spp.), Root lesion nematode (*Pratylenchus* spp.), Cyst nematode (*Heterodera* spp.), Reniform nematode (*Rotylenchulus reniformis*), False root-knot nematode (*Nacobbus* spp.), Spiral Nematode (*Helicotylenchus* spp.), Sting Nematode (*Belonolaimus* spp.)

Formulation

WDG (United States, Italy, Turkey, Mexico), WG (Turkey, United States, Registration pending in Italy)

OECD registration

Turkey, United States (Trade name: MeloCon), Mexico, Italy

Manufacturer

Prophyta Biologischer Pflanzenschutz GmbH

Manufacturer location

Germany

More information

<http://www.prophyta.de/englisch/index1280.html?start.html>

Label

http://www.prophyta.de/englisch/pdf/BioAct_Product_Information.pdf (WG)

Ditera

Myrothecium verrucaria strain AARC-0255

Nematicide

Fungus

Label crops

Citrus fruit (sweet orange, lemon, grapefruit), Flowering, Bedding plants, Ornamentals (fern, Hosta), Leafy vegetables, Cole crops (celery, head and leaf lettuce, spinach, broccoli, cabbage), Stone fruit (peach, plum, prune), Tree nuts (almond, pecan, walnut), Grape, Pineapple, Pome fruits (Apple, Pear), Greenhouse crops, Shadehouse crops, Outdoor nursery crops (Leafy, Heads, Brassica, Fruits), Herbs, Spices, Mint (Basil, Chive, Dill, Peppermint), Turf, Forest, Sugar maple trees

Target pests

Root-knot nematode (*Meloidogyne* spp.), Cyst nematode (*Globodera* spp., *Heterodera* spp.), Lesion nematode (*Pratylenchus* spp.), Citrus nematode (*Tylenchulus semipenetrans*), Stubby-root nematode (*Trichodorus* spp.), Needle nematode (*Longidorus* spp.), Pin nematode (*Paratylenchus* spp.), Reniform nematode (*Rotylenchulus* spp.), Dagger nematode (*Xiphinema* spp.), Sting nematode (*Belonolaimus* spp.), Ring nematode (*Criconemoides* spp., *Criconemella* spp.), Stunt nematode (*Tylenchorhynchus* spp.), Lance nematode (*Hoplolaimus* spp.), Spiral nematode (*Rotylenchus* spp., *Helicotylenchus* spp.), Burrowing nematode (*Radopholus* spp.), Looper, Tobacco budworm, Omnivorous looper, Omnivorous leafroller, Diamondback moth, Armyworm, Ello moth (Hornworm), lo moth, Oleander moth, Azalea caterpillar, Heliothis, Saltmarsh caterpillar, Sod webworm, Gypsy moth, Bagworm, Redhumped caterpillar, Spring cankerworm, Cankerworm, Fall webworm, Elm spanworm, Tent caterpillar, California oakworm, Pine butterfly, Spruce budworm, Prominent caterpillar, Douglas fir tussock moth, Western tussock moth, Fruittree leafroller, Blackheaded budworm, Mimosa webworm, Jackpine budworm, Saddleback caterpillar, Greenstriped mapleworm, Hemlock looper

Fall
Saddle

Formulation

DF, ES, WDG

OECD registration

United States, unspecified countries

Manufacturer

Valent Biosciences Corp.

Manufacturer location

United States

More information

http://www.valentbiosciences.com/agricultural_products/agricultural_products_13.asp

Label

<http://www.greenbook.net/docs/Label/L71779.PDF> (DF)

<http://www.cdms.net/LDat/ld4CB005.pdf> (ES)

<http://www.cdms.net/LDat/ld4CC000.pdf> (WDG)

Formulation Codes

Code	Term	Code	Term
AB	Gran bait	FG	Fine granule
AC	Aqueous concentrate	FK	Smoke candle
AE	Aerosol dispenser	FP	Smoke cartridge
AI	Active ingredient	FR	Smoke rodlet
AL	Other liquids to be applied undiluted	FS	Flowable concentrate for seed treatment
AP	Other powder	FT	Smoke tablet
AS	Aqueous suspension	FU	Smoke generator
BB	Block bait	FW	Smoke pellet
BR	Briquette	GA	Gas
CB	Bait concentrate	GB	Granular bait
CG	Encapsulated granule	GE	Gas generating product
CP	Contact powder	GG	Macrogranule
CS	Capsule suspension	GL	Emulsifiable gel
DC	Dispersible concentrate/Dry concentrate	GP	Flo-dust
DF	Dry flowable	GR	Granule
DP	Dispersible powder	GS	Grease
DS	Powder for dry seed treatment	GW	Water soluble gel
EC	Emulsifiable concentrate	HN	Hot fogging concentrate
ED	Electrochargeable liquid	HP	High potency
EG	Emulsifiable granule	KK	Combi-pack solid/liquid
EO	Emulsion, water in oil	KL	Combi-pack liquid/liquid
ES	Emulsion for seed treatment/ Emulsifiable suspension	KN	Cold fogging concentrate
EW	Emulsion, oil in water	KP	Combi-pack solid/solid
FC	Flowable concentrate	LA	Lacquer
FD	Smoke tin	LC	Liquid concentrate
		LS	Solution for seed treatment

Code	Term
MG	Microgranule
OF	Oil miscible flowable concentrate (oil miscible suspension)
OL	Oil miscible liquid
OP	Oil dispersible powder
PA	Paste
PB	Plate bait
PC	Gel or paste concentrate
PO	Pour-on
PR	Plant rodlet
PS	Seed coated with pesticide
RB	Bait (ready to use)
RTU	Ready to use
SA	Spot-on
SB	Scrap bait
SC	Suspension concentrate (= flowable concentrate)
SE	Suspo-emulsion
SG	Water soluble granules
SL	Soluble concentrate
SO	Spreading oil
SP	Water soluble powder
SS	Water soluble powder for seed treatment
SU	Ultra-low volume suspension
TB	Tablet
TC	Technical material
TK	Technical concentrate
UL	Ultra-low volume liquid
ULV	Ultra-low volume

Code	Term
WDG	Water dispersible granule
WG	Water dispersible granule
WP	Wettable powder
WS	Water dispersible powder for slurry treatment
XX	Others

List of Manufacturers Appearing in this Directory

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
AEF Global Inc.	201 Mgr-Bourget, Levis, Quebec, Canada G6V 9V6	418-838-4441	418-835-2112	aefglobal.com
AgBioChem Inc.	3 Fleetwood Court, Orinda, California, USA 94563	925-254-0789	925-254-0186	agbiochem@msn.com (email)
AgBioResearch Ltd.	25 McPherson Street, Richmond 7031, New Zealand	025-393340	03-544-2364	agbioresearch@xtra.co.nz (email)
Agraquest Inc	1540 Drew Avenue Davis, CA 95618	1-800-962-8980	530-750-0153	agraquest.com
Agrimm Technologies Ltd.	PO Box 35, Lincon, Christchurch 8150, New Zealand	64-3-325-3311	64-3-325-6117	info@tricho.com (email)
AgriVir, LLC	Suite 208, 7700 Leesburg Pike Falls Church, Virginia, USA 22043	703-821-3646	703-821-2299	agrivir.com
AMC Chemical/Trichodex	Pol. Ind. La Isla. Avd. Río Viejo, 44 - 45 y Parcela R-17 41700 Dos hermanas (Seville) Spain	(34) 954 930 942	(34) 954 930 899	amcchemical.com
American Agritech	Suite 103, 5325 S. Kyrene Rd., Tempe, Arizona, USA 85283	877-753-0404	480-777-2015	americanagritech.com
Andermatt Biocontrol AG	Stahlermatten 6, Grossdietwil, CH-6146, Switzerland	41-62-917-50-05	41-62-917-50-06	sales@biocontrol.ch (email)
Arizona Cotton Research and Protection Council	3721 E. Wier Ave., Phoenix, Arizona, USA 85040-2933	602-438-0059	602-438-0407	azcotton.com

List of Manufacturers (con'd)

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
Arvesta	Suite 150, 15401 Weston Parkway, Cary, North Carolina, USA, 27513	800-358-7643	800-358-7642	arvesta.com
Becker Microbial Products Inc.	5786 N. W, 119th Dr., Coral Springs, Florida, USA 33076	954-345-9321	954-345-9318	tcouch@gate.net (email)
Becker Underwood Inc.	801 Dayton Avenue, Ames, Iowa, USA, 50010	515-232-5907	515-232-5961	beckerunderwood.com
Binab Bio-Innovation EFTR AB	Florettgatan 5, SE-254 67 Helsingborg	46-42-16-37-04	46-42-16-24-97	algonet.se/~binab
BioAgri AB	PO Box 914, Dag Hammarskjolds vag 180 SE-751 09 Uppsala, Sweden	46-(0)18-67-49-00	46-(0)18-67-49-01	bioagri.se
BioBest Biological Systems	Ilse Velden 18, B-2260 Westerlo Belgium	32-14-25-79-80	32-14-25-79-82	biobest.be
BioLogic Company	PO Box 177, Willow Hill, Pennsylvania, USA 17271	717-349-2789	801-912-7137	biologicco.com
Biological Control Products/LUBILOSA	08 B.P. 0932 Tri Postal, Cotonou, Benin	229-350188	229-350556	lubilosa.org
Biopreparaty	spol. s r.o. Tylišovská 1 160 00 Praha 6	233 321 217	233 321 217	biopreparaty.cz
BioTepp	895 Chemin Benoit, Mont-St-Hilarie, Quebec, Canada J3G 4S6	418-659-4446	418-786-2031	biotepp.com

List of Manufacturers (con'd)

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
Bioved Ltd.	9923 Kemestaródfa, Kemesmáli út 23, Hungary	36-20-951-81-51	36-20-460-41-99	bioved.hu
BioWorks Inc.	345 Woodcliff Dr. 1st Floor, Fairport, New York, USA 14450	585-641-0581	800-903-2377 or 585-641-0584 (US)	bioworksinc.com
Bonide Products Inc.	6301 Sutliff Rd, Oriskany, New York, USA 13424	315-736-8231	315-736-7582	bonide.com
Borregaard Bioplant	Helsingfordgade 27B, DK-8200 Arhus N	45-8678-6988	45-8678-6922	bioplant.dk
Britz Fertilizers Inc.	7707 S.Jack Tone Rd., Stockton, California, USA 95215	209-461-6565	209-461-6569	britzfertilizers.com
Cape Fear Chemicals Inc.	PO Box 695, Elizabeth town, North Carolina, USA 28337	910-862-3139		
Certis USA, LLC	9145 Guilford Road, Suite 175, Columbia, Maryland, USA 21046	800-847-5620	301-604-7030	certisusa.com
Emerald Bioagriculture Corp.	3125 Spovereign Dr. Suite B, Lansing, Michigan, USA 48911-4240	517-882-7370	517-882-7560	emeraldbio.com
FZB Biotechnik	Glienicker way 18512486, Berlin, Germany	49-0-30-670-570	49-0-30-670-572-33	fzb-biotechnik.de
Green Biotech Corporation, Ltd.	737-28 Sangisug-ri, Kyoha-eup Paju City Kyungki-Do, South Korea 413-830	82-31-946-5614	82-31-946-5615	greenfarmer.com

List of Manufacturers (con'd)

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
Green Light Company	10511 Wetmore, San Antonio, Texas, USA 78216	210-494-3481	210-494-5224	greenlightco.com
Growth Products Ltd.	PO Box 1252, White Plains, New York, USA 10602	800-648-7626 or 914-428-1316	914-428-2780	growthproducts.com
Gustafson LLC	4895 12th Avenue East Shakopee, Minnesota, USA 55379	952-445-6868 or 800-634-6738	952-445-8282	gustafson.com
Helena Chemical	225 Schilling Blvd. Collierville, TN 38017	901-761-0050		helenachemical.com
Integrated Biocontrol Systems	PO Box 96, Aurora, Indiana, USA 47001	812-537-8674 or 812-537-6652	812-537-8644	nematodary.com
Jet Harvest Solutions	PO Box 915139, Longwood, Florida, USA 32791-5139	877-866-5773 or 407-523-7842	407-298-2377	bio-save.com
Koppert	Ironside Crescent #2 50, Scarborough, Ontario, Canada M1X 1G4	416-291-0040	416-291-0902	koppert.nl
Koppert	Veilingweg 17, Postbus 155, 2650 AD, Berkel en Rodenrijs, Netherlands	010-514-04-44	010-511-52-03	koppert.nl
Loveland Products, Inc.	789 Donnybrook Dr., Dorchester, Ontario Canada, N0L 1G5	800-265-4624	519-268-8013	uap.ca
Laverlam	Cali, Carrera 5 No. 47-165 Columbia	(572) 447 4411	(572) 447 4409	laverlam.com.co
M&R Durango	PO Box 886, Bayfield, Colorado, USA 81122	800-526-4075	970-259-3857	goodbug.com

List of Manufacturers (con'd)

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
Makhteshim	Unit 16, Thatcham Business Village, Colthrop Way, Thatcham, Berkshire RG19 4LW	01635-860-555	01635-861-555	mauk.co.uk
MicroFlo Company	530 Oak Court Drive, Suite 100, Memphis, Tennessee, USA 38117	800-451-8461	901-432-5100	microflocompany.com
Natural Industries Inc.	6223 Theall Rd, Houston, Texas, USA 77066	281-580-1643	281-580-4163	naturalindustries.com
Natural Plant Protection S.A.	Route d'Artix, B.P. 80, 64150 Nogueres, France	+33-5-5960-9292	+33-5 5960-9298	n.p.p@wanadoo.fr (e-mail)
Novozymes Biologicals, Inc.	Krogshoejvej 36 2880, Bagsvaerd, Denmark	45-88-24-99-99	45-88-24-99-98	novozymes.com
Nu Farm Inc.	103-105 Pipe Road, Laverton, North Vic 3026, Australia	61-3-9282-1000	61-3-9282-1111	nufarm.com
Planet Natural	1612 Gold Ave., Bozeman, Montana, USA 59715	406-587-5891	406-587-0223	planetnatural.com
Plant Production Institute	Bratislavsk cesta 122, 921 68, Piestany, Slovak Republic	838-223-11-12	838-263-06	
Plant Products Co Ltd	314 Orenda Rd, Brampton, Ontario, Canada L6T 1G1	905-793-7000 or 800-387-2449	905-793-9157	plantprod.com
Plato Industries	2020 holmes rd Houston, TX 77045	713-797-0406		

List of Manufacturers (con'd)

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
Premier Horticulture Inc.	Premier Ave., Riviere-du-Loup, Quebec, Canada G5R 6C1	418-862-6356	418-862-6685	premierhort.com
Prophyta Biologischer Pflanzenschutz GmbH	Inselstasee 12 D-23999 Malchow, Poel, Germany	49-0-38425-23-0	49-0-68425-23-23	prophyta.de
Southern Agricultural Insecticides Inc.	PO Box 289, Palmetto, Florida, USA 34221	828-692-2233	828-693-7554	southernag.com
St. Gabrielle Laboratories	14044 Litchfield Dr., Orange, Virginia, USA 22960	540-672-0866	540-672-0052	milkyspore.com
Summit chemical co.	235 South Kresson Street, Baltimore, Maryland, USA 21224-2616	800-227-8664	410-522-0833	summitchemical.com
Sylvan Bioproducts Inc.	333 Main Street, PO Box 249, Saxonburg, Pennsylvania, USA 16056	724-352-7520 or 866-352-7520	724-352-7550	sylvaninc.com
Terra Nostra	2160 de la montagne Suite 720, Montreal, Quebec, Canada H3G 2T3	514-845-7756	514-845-0883	tnrgroup.com
Troy Biosciences Inc.	113 S. 47th Ave., Phoenix, Arizona, USA 85043	602-233-9047	602-272-4155	troybiosciences.com
Turf Science Laboratories Inc.	2121 Hoover Ave., National City, California, USA 91950	800-964-4266	619-477-5630	turfsciencelabs.com
United Agri-Products	7251 W 4th Street, Greeley, Colorado, USA 80634	970-356-4400	970-347-1560	uap.com
USDA Forest Service	1400 Independence Ave SW, Washington, D.C., USA 20250	202-205-8333		fs.fed.us

List of Manufacturers (con'd)

Company	Address	Phone Number	Fax	World Wide Web (www. or http://)
Valent Biosciences Corp.	PO Box 8025, Walnut Creek, California, USA 94596-8025	800-682-5368		valentbiosciences.com
Verdera Oy	PO Box 5, Luoteisrinne 2, Finland FI-02271 ESPOO	358-0-10-217-3713	358-0-10-217-3711	verdera.fi
Voluntary Purchasing Group Inc.	PO Box 460, Bonham, Texas, USA 75418	903-583-5501		v-p-g.com
Wellmark international	1501 E. Woodfield Rd., Suite 200 West, Schaumburg, Illinois, USA 60173	800-877-6374		wellmarkinternational.com
Wilbur Ellis Company	345 California Street, 27th Floor, San Francisco, California, USA 94104	415-772-4000	415-772-4011	wilbur-ellis.com
Woodstream Corp.	PO Box 327, Lititz, Pennsylvania, USA 17543-0327	800-800-1819	717-626-1912	woodstreamcorp.com