



Target Insects Suppressed by Entomo-Pathogenic Nematode Insecticides

Specific types of Entomo-Pathogenic Nematode Insecticides may suppress only SPECIFIC insects.

Entomo-Pathogenic Nematode Insecticides DO NOT suppress all insects.

Turfgrass Insect

Pest

Annual Bluegrass Weevil

(Hyperodes Weevil) larvae

Ants

Billbug larvae

Virulent

Entomo-Pathogenic Nematode Species

Heterorhabditis bacteriophora

Steinernema carpocapsae

Steinernema feltiae

Steinernema carpocapsae

Green Alternatives

Steinernema carpocapsae Chinch Bugs

Cutworm larvae Heterorhabditis bacteriophora

Steinernema carpocapsae

Heterorhabditis megidis European Chafer larvae

Steinernema scarabaei

Heterorhabditis bacteriophora Japanese Beetle larvae

Heterorhabditis zealandica

Steinernema scarabaei

Heterorhabditis bacteriophora Leatherjacket larvae

Steinernema feltiae

Steinernema carpocapsae Naturally-occurring Nematode species that

Steinernema riobrave are plant-parasitic to turf

Sod Webworm larvae Heterorhabditis bacteriophora

Steinernema carpocapsae

Green Alternatives

MAY be effective in providing some level of suppression of Chinch Bugs under moist to wet thatch conditions, but they are not yet officially recommended.

Mode of Action of Entomo-Pathogenic Nematode Insecticides

When an insect has been killed by Entomo-Pathogenic Nematode Insecticides, the body becomes flaccid, and changes to a conspicuous colour.

As a rule, larvae killed by certain Entomo-Pathogenic Nematode species will change into the following colours. For example —

- *Heterorhabditis bacteriophora* Reddish-brown cadaver colour

The infective juvenile Nematodes enter natural body openings of the insect lar-Deaths occurs within one or two days.

The Nematodes then feed and reproduce inside the insect cadaver, and subsequently release a new generation of hungry little Nematodes that disperse and attack other insect victims.

The Nematodes then feed on the bacteria and the dead insect, and move on to consume and contaminate new target insects.

Bogus Green Alternatives

pest control products.

Overall, « Green Alternatives » are a DISMAL

of active ingredient.

Virtually all Green Alternatives are BOGUS,

- Green Alternatives may be ALMOST TO-TALLY INEFFECTIVE except under very specific
- Green Alternatives may be PROHIBITED in
- HIGHER IN TOXICITY
- MORE EXPENSIVE to use when compared to conventional pest control products
- Green Alternatives may be SUPPLIED by the same Environmental-Terror-Organizations that sought the prohibition of conventional pest control products
- SIDE-EFFECTS like phyto-toxicity (an effect that adversely affects plant growth) or metal corrosion or rodent-attractant
- as pest control products, and therefore, are
- Green Alternatives may NOT have a full

TOXICITY and ENVIRONMENTAL IMPACT, which

- Green Alternatives may require EXTREME-LY-HIGH-INPUTS OF ACTIVE INGREDIENT since they will otherwise be less effective
- Green Alternatives may require MORE PER-SONAL PROTECTION for the user
- Green Alternatives may NOT BE SAFER, NOT BETTER, and NOT MORE EFFECTIVE

Nematode Insecticides

any appendages.

by the government as bio-pesticides since they

- « entomon » which means insect, and
- « pathogenic » meaning causing disease.

Entomo-Pathogenic Nematode Insecticides are Canada.

cides as a « pest control product ».

Ontario.

part of the manufacturer to divulge a full range

public relations problem.

products appears to be in direct contravention the federal Pest Control Products Act.

Nematode Insecticides

ment of Entomo-Pathogenic Nematode Insecti-

proach a few years later.

about the considerable exchange of nematode germplasm occurring between laboratories.

enemies of pests.

Pest Control Products

duced-Risk Pesticides in Canada ».

Entomo-Pathogenic Nematode Insecticides were CONSPICUOUSLY ABSENT.

General Classification of

risk » green alternative to conventional insecti-

Nematodes have been classified, or described,

- Beneficial nematode product
- Bio-control of insect pests
- Biological insecticide
- Bio-pesticide or bio-insecticide
- Bio-suppression of insect pests
- Commercial nematodes

- Infective juvenile nematodes

- Nematode product
- Parasitic nematodes

Canadian Manufacturers' Position

control products have AVOIDED the sale of En-

In the event of any LIABILITIES with Entomosuppliers DO NOT have the resources to deal with the situation.

Care Industry.

Ontario Prohibition of Pest Control Products

tario implemented legislation for the « Cosmetic Pesticides Ban Act ».

sional Lawn Care Industry.

fact that the prohibited pest control products were still federally legal, scientifically safe, and totally irreplaceable.

The legislation allowed for a new classification framework that included eleven classes of pest control products -

- Class 1 Manufacturing concentrates used in formulations.
- Class 2, 3 and 4 Commercial or restricted (non-domestic) products used by farmers, exterminators, and golf courses.

Senator, Sevin, Waxed Mouse Bait.

- cluding bio-pesticides and « lower-risk products » allowed for cosmetic use.
- Class 7 Domestic products for noncosmetic use.
- Class 8 Domestic products that are pro-
- Class 9 Active ingredients prohibited for cosmetic use.

baryl, chloroneb, chlorothalonil, deltamethrin, myclobutanil, propiconazole, quintozene, thio-

- Class 10 Products to be used under the health or safety exception.
- naturally-occurring products.

Ontario Classification

Pathogenic Nematode Insecticides are not even listed as a Class 3, a Class 5, or a Class 11

vention to the definition of a « pesticide », as

Here is the definition of a « pesticide » under Ontario regulation -

stance or thing that is manufactured, repremitigating, attracting or repelling any pest or of altering the growth, development or characincludes any organism, substance or thing reg-(Canada); (« pesticide ») >>

Green Alternatives Under Ontario Class 11

The list of active ingredients under Class 11 ternatives » to conventional pest control prod-

- Bacillus thuringiensis
- Citric Acid
- Diatomaceous earth
- Iron (Ferrous or Ferric) Sulfate
- Lime Sulphur
- Mineral Oil

Entomo-Pathogenic Nematode Insecticides are CONSPICUOUSLY ABSENT from ANY federal and provincial regulation

Entomo-Pathogenic Nematode Insecticides are NOT FEDERALLY REGISTERED as pest control products in Canada

The failure to regulate nematode products appears to be in DIRECT CONTRAVENTION of the federal definition of a pest control product

Must Immediately Address Sixteen Critical Issues -

ficial nematodes) are found in products that are

- 1. COMPOSITION The Entomo-Pathogenic Nematode Industry must divulge the FULL CON-
- Pathogenic Nematode Industry must avoid the prac-
- 3. SAFETY The Entomo-Pathogenic Nematode Industry must publicly explain why it deems nema-
- 5. CHILDREN $\,-\,$ The Entomo-Pathogenic Nematode Industry must divulge a full range of information regarding all potential hazards of nematode products specific to CHILDREN.
- with conventional pest control products under the

- 9. SANCTIONED TESTING The Entomo-Pathogenic Nematode Industry must have all safety data generated by GOOD LABORATORY PRACTICE
- 10. FEDERAL DEFINITION The Entomo—Pathogenic Nematode Industry must clearly indicate defined as « pest control products » (or « pestici-
- 11. FEDERAL REGISTRATION The Entomo-Pathogenic Nematode Industry must seek to FEDER-
- information concerning its products, including MATE
- SYMBIOTIC BACTERIA that they carry, and any other
- tode Industry must publish research performed in EXPECTED PER CENT SUPPRESSION of insects that damage turfgrasses.











Force Of Nature presents THE WHOLE TRUTH FROM AN INDEPENDENT PERSPECTIVE from National Organization Responding Against HUJE that seek to harm the Green Space Industry (NORAHG). It is a series of Reports destined for the Green Space Industry, the Environmental Terror Movement, Governments, and the Media, nationwide across Canada, the United States, and overseas. The information presented in Force Of Nature has been developed for the education and entertainment of the reader by providing a sequence of historical events WITH COMMENTARY. The neutrality of these Reports might be disputed. Don't thank us. It's a public service. And we are glad to do it.

HUJE are identified on the basis of their statements, activities, affiliations, and whereabouts. Even though each Enviro Maniac Culprit is a misguided adversary, each still deserves our respect. The use of the terms Maniac, Culprit, Terrorist, or Basterd are not accusations of any legal wrong doing. Force Of Nature is simply holding Enviro Maniac Activists accountable for conspiring to change public policies that TERRORIZE, HARM, and THREATEN the Green Space Industry.

HUJE is a term used to describe Enviro Maniac Activists that routinely concoct FEAR MONGERING, FRAUDULENT LIES, MISCONCEPTIONS, COERCION, THREATS, DECEPTIONS, TERROR, and PARANOID CONSPIRACIES that are DESIGNED to SCAM and DECEIVE the public into believing there is some NON-EXISTENT danger with conventional pest control products. HUJE also SCAM and DECEIVE Government Officials into the NEEDLESS, SENSELESS, and MALICIOUS CONSPIRACY to PROHIBIT conventional pest control products that are FEDERALLY LEGAL, SCIENTIFICALLY SAFE, TOTALLY IRREPLACEABLE, and ABSOLUTELY INDISPENSABLE.

HUJE have created LOSS OF REVENUES, BUSINESS FAILURES, BANKRUPTCY, and UNEMPLOYMENT, inflicting DE-SPAIR and DESTITUTION for THOUSANDS of hapless victims throughout the Green Space Industry. The DE-PRAVED INDIFFERENCE of Maniac Culprit Terrorist Basterd HUJE is viewed as a form of TERROR, HARM, and THREAT against the Green Space Industry.

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Force Of Nature, and its various incarnations, is the brainchild of William H. Gathercole and his colleagues. Mr. Gathercole is a principal FOUNDER of the Modern Professional Lawn Care Industry in BOTH Ontario and Quebec. He holds a degree in Horticulture from the UNIVERSITY OF GUELPH, and another pure and applied science degree from McGILL UNIVERSITY. He has worked in virtually all aspects of the Green Space Industry, including GOLF, PROFESSIONAL LAWN CARE, and CHEMICAL INDUSTRY, and has served in environmental compliance, government negotiations, public affairs, and workplace safety. Mr. Gathercole has supervised, consulted, programmed, and/or overseen the successful and safe execution of HUNDREDS OF THOUSANDS of pest control applications in the urban landscape. He has trained, instructed, and consulted with THOUSANDS of turf managers and technicians. Mr. Gathercole has also been an agricultural agronomist. For many years, Mr. Gathercole was a contributing columnist for TURF & Recreation Magazine, Canada's Turf and Grounds Maintenance Authority.

Mr. Gathercole and his colleagues have followed the evolution of ENVIRONMENTAL TERRORISM for over a quarter century. For FIFTEEN YEARS, the strategies designed and implemented by Mr. Gathercole and his colleagues guaranteed the control of the VERMIN OF ENVIRONMENTAL TERROR for the entire Modern Green Space Industry across Canada. Their involvement in Environmental Issues reached a fevered pitch in the 1990s, when he orchestrated, with his colleagues, legal action against the Forces of Environmental Evil in the Town of Hudson, Quebec.

Today, Mr. Gathercole is the ONLY TRUE RELIABLE WITNESS of the Hudson Affair. Mr. Gathercole is personally credited for crafting the Golf Industry Exception Status, that endures to this day. He is also the creator of the signs that are now used for posting after application. His vast knowledge of our long journey with Environmental Issues is UNDENIABLE — hopefully! Mr. Gathercole is now retired, although his name continues to appear as FOUNDER of Force Of Nature.

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