

Iodinated Hydrocarbon Pesticide

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 Reference: Iodinated Pesticide

Inventors

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Status

- US Patent [6,465,527](#) issued 10/15/02
- This technology has been field tested

Licensing Opportunities

- This technology is available for exclusive or non-exclusive licensing

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Overview

This technology was developed to control deleterious organisms without causing significant harm to the ozone layer. This compound can serve as an effective insecticidal, nematicidal and herbicidal formulation. Using a fraction of the halogenated hydrocarbon as typically used for methyl bromide and methyl iodine gives a similar performance against both insects and nematodes. This technology has potential in the following industries:

- Agro-chemical companies
- Fertilizer industry

Advantages

- A suitable methyl bromide replacement without significant harm to ozone
- Much more cost efficient than methyl bromide
- An effective insecticide, nematicide and herbicide

Description

This technology was developed to control deleterious organisms, such as insects, nematodes and weeds without causing significant harm to the ozone layer. Such deleterious organisms can be controlled by applying a compound comprised of both monoiodinated hydrocarbons and diiodinated hydrocarbons. Because of the chemical properties of the iodinated hydrocarbons, most notably their inter-solubility, the mono- and diiodinated hydrocarbons can be combined to make an effective insecticidal and nematicidal formulation that gives a similar performance to that of methyl bromide against both insects and nematodes. Additionally, the combination can be an effective herbicide. This technology uses about one tenth the quantity of halogenated hydrocarbon as typically used for methyl bromide and methyl iodine and can be applied to soil in a covered or uncovered state. This technology is also much more effective than the use of iodomethane.

