

HEMP PROGRAM- Pesticides

Pesticide Use on Hemp in Vermont (6 VSA Chapter 87)

Vermont regulates use of pesticides by homeowners and professionals, including sales restrictions, proper use, storage, and disposal of pesticides. Product registration, applicator certificates, dealer licenses, and permits may be required for use of certain pesticides, all of which are issued from this Division of Public Health and Agricultural Resource Management. Homeowners and professionals are responsible for following the directions on product labels and for properly disposing of all unused pesticides.

Pesticide Applicator Certification

Private Applicators - Farmers of all kinds: dairy, vegetables, berries, apples, grapes, nursery stock, Christmas trees, and more. To be certified to use state or federally restricted use (VT Class A) pesticides in Vermont, private applicators need to pass the CORE exam and maintain required records. A private certificate is valid for 5 years and costs \$25.

Commercial Applicators - Employees of companies that perform (but not limited to) the following services: pest control, mosquito control, landscape, lawn care, tree care, agricultural custom application, forest pest control including invasive plant control, vegetation control (right-of-way), aquatic weed control, wood preservation, aerial application. To use any pesticides on the property of others you must be a commercial applicator and be affiliated with a licensed pesticide applicator company.

Worker Protection Standard

The Worker Protection Standard (WPS) is a regulation issued by the U.S. Environmental Protection Agency (EPA). It is intended to reduce the risks of illness or

injury to workers and handlers resulting from occupational exposures to pesticides used in the production of agricultural plants on agricultural establishments, including greenhouses and indoor growing operations. Workers are generally those who perform hand-labor tasks in pesticide-treated crops, such as harvesting, thinning, and pruning. Handlers are usually those that are in direct contact with pesticides such as mixing, loading or applying pesticides. Even if you are not required to be a certified pesticide applicator, the Worker Protection Standard (WPS) will likely still apply if you have any non-family employees.

Product Registration and Classification

All pesticides used in Vermont are required to be registered with the Agency and meet strict state labeling requirements prior to be offered for sale.

Currently there are some EPA-registered pesticide products that are labeled for use on hemp. In addition to these few products, Vermont will allow products to be used if they meet the following criteria:

- the active ingredient(s) has a tolerance exemption under Federal Food, Drug, and Cosmetic Act (FFDCA)
- shall only contain the active ingredients listed below,
- must be labeled for use on unspecified food crops, and
- have an agricultural use label for hemp intended for commercial sale.

If *inappropriate* products are used on hemp, the entire crop is subject to condemnation by the Agency.

For questions regarding pesticide applicator certification, pesticide registration or use, or the Worker Protection Standard, please call (802) 828-2431.

Active Ingredient	Product Example (s)	Pesticide Type
Acetic acid	Vinagreen	Herbicide
Azadirachtin / Neem	Azamax, Azasol, Molt-X	Insecticide, Miticide, Nematicide
Ammonium soaps for higher fatty acids	Finalsan Herbicidal Soap	Herbicide
Bacillus spp.	Double Nickel, Serenade, Agree WG	Fungicide, Insecticide
Beauveria bassiana spp.	Botanigard ES	Insecticide
Isaria spp.	PFR-97 20% WDG, Preferal Microbial	Insecticide
Streptomyces spp	Mycostop, Actinovate	Fungicide
Trichoderma	Rootshield, Incept	Fungicide
Citric acid	Eliminator	Miticide, Insecticide,
Cytokinins	Agra-Rouse	PGR-General
Diatomaceous Earth	Celite 610, Diafil 610	Insecticide
Geraniol	Banish	Fungicide
Gibberellic acids	HM-1354-A	PGR-General
Hydrogen dioxide	Terraclean 5.0	Fungicide, Bactericide
Hydrogen peroxide	Jet AG	Fungicide, Algacide

Indole-3-butyric-acid	Clonex Rooting Gel	PGR- Growth Stimulator
Canola oil	Natural Guard Brand Horticultural Oil	Insecticide, Fungicide, Miticide
Mineral oil	All Season Horticultural & Dormant Spray Oil Concentrate	Insecticide, Fungicide
Soybean oil	Golden Pest Spray	Insecticide
Castor oil	Mole & Vole Stopper	Rodent repellent
Cinnamon oil	Safer Gro	Herbicide
Clove oil	Nature-Cide All Purpose	Insecticide
Cottonseed oil	Spider Mite Control	Miticide
Garlic oil	Captiva	Insecticide
Mint oils	Trifecta Crop Control	Fungicide, insecticide
Rosemary oil	Trifecta Crop Control	Fungicide, insecticide
Sesame oil	Organocide 3-in-1 Garden Spray	Miticide, Insecticide, Fungicide
Thyme oil	Thyme Guard	Fungicide, Insecticide, Bactericide, Virucide
Peroxyacetic acid	Bioside HS 15%	Fungicide
Potassium bicarbonate	Kaligreen	Fungicide
Potassium salts of fatty acids	Exile, KOPA Insecticidal Soap, Safer Soap	Insecticide, Fungicide, Miticide
Mono and Di-Potassium salts of phosphorus acid	Fosphite	Fungicide
Reynoutria sachalinensis	Regalia	Fungicide, PGR- General