



Office of  
**INDIANA STATE CHEMIST AND SEED COMMISSIONER**  
*Protecting Indiana's Agriculture and Environment - Feed, Fertilizer, Hemp, Pesticide and Seed*

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**Legal Use of Pesticides on Hemp Production in Indiana**

**IMPORTANT:** The following is provided as legal guidance for use of pesticides on hemp in Indiana only. Reference to any pesticide product does not indicate acceptance or approval of those products by the Office of the Indiana State Chemist (OISC) as safe or effective in controlling pests in the production of hemp.

All pesticide products that are produced, distributed, sold, displayed, or offered for sale within Indiana, must be registered in the state of Indiana (IC 15-16-4-61).

The listing is specific to post-planting applications of pesticides.

**1. Are there any pesticides legal for use in hemp crops in Indiana?**

EPA has accepted the legal use in hemp crops on a few EPA Registered (Sec. 3) pesticide products.

OISC and Purdue Extension have also provided growers with additional pesticides through the use of Sec. 24(c)<sup>1</sup> Special Local Need registrations. Growers must have a copy of the 24(c) label on hand, at the time of application, to be compliant with regulations. 24(c) labels are clearly identified on our list of available products and can be downloaded at the OISC pesticide page, under Pesticide Use on Hemp:

<https://www.oisc.purdue.edu/pesticide/index.html>

If you are interested in using a product exempt from federal registration, FIFRA 25(b)<sup>2</sup> pesticide products, please review Question 3 for qualifying criteria. All 25(b) pesticide products must be registered with the state of Indiana prior to sale, distribution or use in the state. At this time, the 25(b) pesticide products have not been specifically evaluated for safety or efficacy in hemp production.

A list of Indiana state-registered pesticides that may be legally used on hemp is included within this document and can be found at:

[https://www.oisc.purdue.edu/pesticide/pdf/pest\\_hemp\\_product\\_list.pdf](https://www.oisc.purdue.edu/pesticide/pdf/pest_hemp_product_list.pdf)

**2. Does Indiana pesticide law also exempt Sec. 25(b) products from state regulation?**

No, all pesticide products sold, distributed or used in Indiana must be registered by the Office of Indiana State Chemist (OISC). State law does not exempt Sec. 25(b) products from state registration or the requirement to use the product in a manner consistent with the pesticide product labeling.

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<sup>1</sup> Sec. 24(c) Registration: Provide the additional use of a Sec. 3 products to a crop that is not listed on the EPA accepted Sec. 3 master label. Grower must have the 24(c) on hand at the time of application.

<sup>2</sup> Sec. 25(b) Pesticide Product: There is an exception for products that have been exempted from regulation under FIFRA Sec. 25(b). EPA considers these products to be minimum risk pesticides. These products usually contain a mixture of essential oils and other active ingredients that, per EPA, are of minimal health and safety concern. There are established criteria to exempt these products from federal regulation <https://www.epa.gov/minimum-risk-pesticides>. Therefore, federal pesticide law does not apply to distribution or use of these products.

### **3. What does it mean that all pesticide products must be used in a manner consistent with the product labeling?**

Whether the product is a Sec. 3 registered pesticide, 24(c) special local need registration, or a 25(b) state-registered pesticide the “label is the law” when it comes to legal use.

- For Sec. 3 products, use directions for the target crop “hemp” must be accepted by U.S. EPA and on the product label at the time of application.
- For Sec. 24(c) registrations, the grower must have a copy of the 24(c) on hand at the time of application.
- For Sec. 25(b) pesticides to be legally used on hemp, the product must be state registered, have ingredients that are exempt from a tolerance requirement by U.S. EPA, be labeled for use on other agricultural crops, and not labeled specifically for residential use.

If you are interested in a product that is not registered for use in the state of Indiana or is not on the list of products acceptable for use on hemp, please contact our office at [pestproducts@groups.purdue.edu](mailto:pestproducts@groups.purdue.edu).

### **4. How do I know if a pesticide product is registered and legal for purchase and use in Indiana?**

You can search for currently state-registered products at [http://npirpublic.ceris.purdue.edu/state/state\\_menu.aspx?state=IN](http://npirpublic.ceris.purdue.edu/state/state_menu.aspx?state=IN) – or –

<https://www.inplants.oisc.purdue.edu/USAPlantsIN/ProductRegFSA/BrandSearch.aspx> .

Tips for product searching include:

- Program type is PESTICIDE REGISTRANTS
- Select the current REGISTRATION YEAR
- Use an asterisk if you do not know the full name of the company or product name
- To see the label that we have on file, select SHOW LABEL LINKS

It is a violation of IC 15-16-5-65(16) to knowingly purchase or use a pesticide product that is not registered in the state.

### **5. I have seen information online for making my own pesticides for use on hemp. Can I use these “home-brew” pesticides on my own hemp crop?**

No. It is a violation of state pesticide law (I.C. 15-16-5-65-16) to knowingly purchase or use a pesticide product that has not been registered by OISC. Therefore, nonregistered home-brewed pesticides cannot be sold, distributed, or used in Indiana on hemp or any other agricultural crop, regardless of product ingredients.

### **6. What is the definition of a “pesticide”?**

According to IC 15-16-4-30, a pesticide means any substance or mixture of substances intended for preventing, destroying, repelling or mitigating a pest, and any substance or mixture of substances intended for use as a plant regulator, defoliant, or desiccant.

### **7. What is the definition of a “pest”?**

According to IC 15-16-5-24, a pest means any insect, rodent, nematode, fungus, or weed, or any other form of terrestrial or aquatic plant or animal life or virus, bacteria, or other microorganism, except viruses, bacteria or other microorganisms on or in living humans or other living animals.

Questions about pesticide products or the preceding information may be directed to OISC at:  
(765) 494-1587 or [pestproducts@purdue.edu](mailto:pestproducts@purdue.edu).

Sec. 3, EPA registered, products acceptable for use on hemp and registered in Indiana					
OISC Product ID	Company Name	Product Name	EPA Reg Number	Active Ingredients	Product Type
2017081243	AEF GLOBAL INC.	BIOPROTEC PLUS	89046-12	Bacillus thuringiensis subspecies kurstaki, strain EVB-113-19	Insecticide
2017082082	AGBITECH PTY LTD	FAWLIGEN	87978-4	Bacillus thuringiensis subspecies kurstaki, strain EVB-113-19	Insecticide
2014076561	AGBITECH PTY LTD	HELIGEN BIOLOGICAL INSECTICIDE	87978-2	Polyhedral occlusion bodies of Helicoverpa zea Nucleopolyhedrovirus ABA-NPV-U	INSECTICIDE
2016079806	ANATIS BIOPROTECTION INC	BIOCERES WP BIOLOGICAL MYCOINSECTICIDE WETTABLE POWDER AGRICULTURAL CROP USE	89600-2	Beauveria bassiana strain ANT-03	Insecticide
2015077852	Biobest USA Inc	ASPERELLO T34 BIOCONTROL BIOLOGICAL FUNGICIDE WETTABLE POWDER	87301-1-91594	Trichoderma asperellum strain T34	FUNGICIDE
2012071700	BIOSAFE SYSTEMS, LLC	ZEROTOL 2.0	70299-12	Ethaneperoxic adic, Hydrogen Peroxide	BROAD SPECTRUM ALGAECIDE/BACTERICIDE/FUNGICIDE
2012071702	BIOSAFE SYSTEMS, LLC	OXIDATE 2.0	70299-12	Ethaneperoxic adic, Hydrogen Peroxide	BROAD SPECTRUM BACTERICIDE/FUNGICIDE
2012071703	BIOSAFE SYSTEMS, LLC	TERRACLEAN 5.0	70299-13	Ethaneperoxic acid and Hydrogen peroxide	BACTERICIDE AND FUNGICIDE SOIL TREATMENT
2010068650	BIOSAFE SYSTEMS, LLC	AZAGUARD BOTANICAL INSECTICIDE/NEMATICIDE	70299-17	Azadirachtin	INSECTICIDE/NEMATICIDE
2021087735	BIOSAFE SYSTEMS, LLC	GUARDA	92144-2-70299	Oil of thyme	FUNGICIDE/BACTERICIDE
2020085637	BIOSAFE SYSTEMS, LLC	BT NOW AQUEOUS BIOLOGICAL INSECTICIDE	89046-12-70299	Bacillus thuringiensis subspecies kurstaki, strain EVB-113-19	Insecticide
2018082286	BIOWORKS, INC.	MILSTOP SP FOLIAR FUNGICIDE	68539-13	Potassium bicarbonate	Fungicide
2012072467	CERTIS USA, LLC	AGREE WG BIOLOGICAL INSECTICIDE	70051-47	Bacillus thuringiensis subsp. aizawai strain GC-91	BIOLOGICAL INSECTICIDE
2016078937	CERTIS USA LLC	CARB-O-NATOR	70051-117	Potassium Bicarbonate	Fungicide
2022089939	CERTIS USA LLC	CERTIS BIOLOGICALS BOTEGHA ES EMULSIFIABLE SUSPENSION MYCOINSECTICIDE	82074-1	Beauveria bassiana strain GHA	MYCOINSECTICIDE
2022089940	CERTIS USA LLC	CERTIS BIOLOGICALS BOTANIGARD ES EMULSIFIABLE SUSPENSION MYCOINSECTICIDE	82074-1	Beauveria bassiana strain GHA	MYCOINSECTICIDE
2022089940	CERTIS USA LLC	CERTIS BIOLOGICALS BOTANIGARD ES EMULSIFIABLE SUSPENSION MYCOINSECTICIDE	82074-1	Beauveria bassiana strain GHA	MYCOINSECTICIDE
2022089936	CERTIS USA LLC	CERTIS BIOLOGICALS BOTANIGARD 22WP WETTABLE POWDER MYCOINSECTICIDE	82074-2	Beauveria bassiana strain GHA	MYCOINSECTICIDE
2022089937	CERTIS USA LLC	CERTIS BIOLOGICALS MYCOTROL WPO WETTABLE POWDER MYCOINSECTICIDE	82074-2	Beauveria bassiana strain GHA	MYCOINSECTICIDE
2019085146	CERTIS USA LLC	CRYMAX BIOINSECTICIDE	70051-86	Bacillus thuringiensis subsp. kurstaki strain EG7841 solids, spores, and lepidopteran-active toxins	Insecticide
2015077222	CERTIS USA, LLC	DOUBLENICKEL LC BIOFUNGICIDE	70051-107	Bacillus amyloliquefaciens strain D747	BIOFUNGICIDE/BACTERICIDE

2012072468	CERTIS USA, LLC	DOUBLENICKEL 55 BIOFUNGICIDE	70051-108	Bacillus amyloliquefaciens strain D747	BIOFUNGICIDE
2008064693	CERTIS USA LLC	GEMSTAR LC INSECTICIAL VIRUS	70051-45	Polyhedral occlusion bodies of the nuclear polyhedrosis virus of <i>Helicoverpa zea</i>	Insecticide
2019084105	CERTIS USA LLC	HOMEPLATE NON-SELECTIVE HERBICIDE	67702-54-70051	Capric acid and Caprylic acid	Herbicide
2017080553	CERTIS USA LLC	LIFEGARD WG BIOLOGICAL PLANT ACTIVATOR	70051-119	Bacillus mycooides isolate J.	Inducer of Plant Resistance to Fungal and Bacterial Pathogens
2012072466	CERTIS USA LLC	PFR-97 20% WDG MICROBIAL INSECTICIDE	70051-19	<i>Isaria fumosorosea</i> Apopka strain 97	Insecticide and Miticide
2020085942	CERTIS USA LLC	SIL-MATRIX LC FUNGICIDE/MITICIDE/INSECTICIDE	70051-127	Potassium Silicate	Fungicide, Insecticide, and Miticide
2015077683	CH BIOTECH R&D CO LTD	MEGAGRO L	90866-13	Indole-3-Butyric Acid and Cytokinin (as Kinetin)	Plant Regulator
2020086306	CH BIOTECH R&D CO LTD	PROMOTE PLANT GROWTH REGULATOR	90866-23	Gamma-aminobutyric acid, Cytokinin (as kinetin), & Choline chloride	Plant Regulator
2019084284	ECOCLEAN SOLUTIONS INC	GREEN GOBBLER 20% VINEGAR WEED KILLER	85208-1-93489	Acetic Acid	Herbicide
2019084904	ECOSTADT TECHNOLOGIES, LLC	ECOWORKS EC BOTANICAL INSECTICIDE, MITICIDE AND NEMATICIDE & FUNGICIDE	89152-4	Cold pressed neem oil	INSECTICIDE, MITICIDE AND NEMATICIDE & FUNGICIDE
2020085561	ENERGEN CAROLINA LLC	VINEGAR WEED & GRASS KILLER	85208-1-92429	Acetic Acid	Herbicide
2021087836	EVERGREEN WAY INC	ARBER BIO FUNGICIDE	84059-28-97021	Bacillus amyloliquefaciens strain F727	BIOFUNGICIDE
2021087834	EVERGREEN WAY INC	Arber Bio Protectant	84059-3-97021	<i>Reynoutria sachalinesis</i>	Fungicide
2016080206	GENERAL HYDROPONICS	GENERAL HYDROPONICS PREVASYN INSECT REPELLANT/INSECTICIDE	91865-1	Soybean Oil, Garlic Oil, and Capsicum Oleoresin Extract	Insecticide and Repellent
2016080207	GENERAL HYDROPONICS	GENERAL HYDROPONICS EXILE INSECTICIDE/FUNGICIDE/MITICIDE	91865-2	Potassium Salts of Fatty Acids	Insecticide, Fungicide, and Miticide
2016080208	GENERAL HYDROPONICS	GENERAL HYDROPONICS DEFGUARD BIOFUNGICIDE/BACTERICIDE	91865-3	Bacillus amyloliquefaciens strain D747	Fungicide and Bactericide
2016080133	LAM International Corporation	BONTANIGARD ES EMULSIFIABLE SUSPENSION MYCOINSECTICIDE	82074-1	<i>Beauveria bassiana</i> strain GHA	MYCOINSECTICIDE
2016079213	LAM International Corporation	MYCOTROL ESO	82074-1	<i>Beauveria bassiana</i> strain GHA	MYCOINSECTICIDE
2018083263	LAM International Corporation	BOTEGHA ES EMULSIFIABLE SUSPENSION MYCOINSECTICIDE	82074-1	<i>Beauveria bassiana</i> strain GHA	MYCOINSECTICIDE
2016080132	LAM International Corporation	BONTIGARD 22WP WETTABLE POWDER MYCOINSECTICIDE	82074-2	<i>Beauveria bassiana</i> strain GHA	MYCOINSECTICIDE
2016079214	LAM International Corporation	MYCOTROL WPO	82074-2	<i>Beauveria bassiana</i> strain GHA	MYCOINSECTICIDE
2017080515	LAWN AND GARDEN PRODUCTS INC	MONTEREY GARDEN PHOS	83416-1-54705	Mono- and Di-Potassium Salts of Phosphorous Acid	Inducer of Plant Resistance to Fungal and Bacterial Pathogens
2019085216	MARRONE BIO INNOVATIONS	REGALIA BIOFUNGICIDE	84059-3	Extract of <i>Reynoutria sachalinensis</i>	Fungicide and Fungistat
2018083267	MARRONE BIO INNOVATIONS	REGALIA CG BIOFUNGICIDE	84059-3	Extract of <i>Reynoutria sachalinensis</i>	Fungicide and Fungistat

2018083084	MARRONE BIO INNOVATIONS	STARGUS BIOFUNGICIDE	84059-28	Bacillus amyloliquefaciens strain F727	Fungicide
2019084333	OHP, INC	FIREWORXX HERBICIDE	67702-54-59807	Capric acid and Caprylic acid	Herbicide
2008065315	PARRY AMERICA INC	AZAMAX BIOLOGICAL INSECTICIDE, MITICIDE, AND NEMATICIDE	71908-1-81268	Azadirachtin	Product type: Insecticide, Miticide, and Nematicide
2019084579	PARRY AMERICA INC	ECOGARDEN BOTANICAL INSECTICIDE, MITICIDE, AND NEMATICIDE	71908-1-81268	Azadirachtin	Product type: Insecticide, Miticide, and Nematicide
2012072672	QUEST PRODUCTS LLC	RELIANT SYSTEMIC FUNGICIDE AGRICULTURAL USE	83416-1	Mono- and Di-Potassium Salts of Phosphorous Acid	Inducer of Plant Resistance to Fungal and Bacterial Pathogens
2019084768	TERRAMERA INC	RANGO FUNGICIDE, INSECTICIDE, MITICIDE	88760-10	Cold Pressed Neem Oil	Insecticide, Miticide, Fungicide, and Nematicide
2019084112	VESTARON CORPORATION	LEPROTEC AQUEOUS BIOLOGICAL INSECTICIDE	89046-12-88847	Bacillus thuringiensis subspecies kurstaki, strain EVB-113-19	Insecticide
2019084111	VESTARON CORPORATION	SPEAR LEP FOR CONTROL OF LEPIDOPTERANS BIOLOGICAL INSECTICIDE	88847-6	GS-omega/kappa - Hctx-Hv1a (spider venom peptides)	Insecticide
2017082135	VESTARON CORPORATION	SPEAR T LIQUID CONCENTRATE INSECTICIDE	88847-6	GS-omega/kappa - Hctx-Hv1a (spider venom peptides)	Insecticide/Miticide

### 24(c) Special Local Need Registrations for use on hemp

Remember: To legally use a product listed under 24(c) registrations – the grower must have a copy of the additional labeling, with directions for use on hemp, on hand at the time of any applications. The labels can be located at: <https://www.oisc.purdue.edu/pesticide/index.html> under the Pesticide Use on Hemp section.

OISC Product ID	Company Name	Product Name	IN SLN Number	Active Ingredients	Product Type
2020085536	MARRONE BIO INNOVATIONS	GRANDEVO WDG (EPA REG. NO. 84059-27)	IN-200007	Chromobacterium subtsugae strain PRAA4-1 cells and spent fermentation media	Insecticide
2020085535	MARRONE BIO INNOVATIONS	GRANDEVO CG (EPA REG. NO. 84059-27)	IN-200008	Chromobacterium subtsugae strain PRAA4-1 cells and spent fermentation media	Insecticide
2020085538	MARRONE BIO INNOVATIONS	VENERATE XC (EPA REG. NO. 84059-14)	IN-200009	Heat-Killed Burkholderia sp strain A396 cells and spent fermentation media	Insecticide
2020085537	MARRONE BIO INNOVATIONS	VENERATE CG (EPA REG. NO. 84059-14)	IN-200010	Heat-Killed Burkholderia sp strain A396 cells and spent fermentation media	Insecticide