

TECHNICAL BULLETIN

June 22, 2020 Supersedes November 1, 2019

Agency Approved Active Ingredients for Growers

The intent of this technical bulletin is to release the list of agency approved active ingredients that can be used in the cultivation of marijuana.

Rule 6(3) in the Marihuana Operations Rule Set - R 420.206(3)

The agency shall publish a list of approved chemical residue active ingredients for cultivators to use in the cultivation and production of marihuana plants and marihuana products to be sold or transferred in accordance with the acts or these rules.

Use of banned chemicals will be referred to the Marijuana Regulatory Agency (MRA) Field Operations Section for investigation and inspection. This may result in sanctions, including, but not limited to, license denial; license limitation or restriction; fines; revocation, suspension, or nonrenewal of a license; administrative holds; and/or orders to cease operations. The department may issue future lists that supersede the information contained in this bulletin.

Please note: The Natural Resources and Environmental Protection Act, 1994 PA 451, Part 83 et seq. and Michigan Department of Agriculture & Rural Development (MDARD) regulations apply to all pesticide use; marijuana is no exception. Specifically:

- Any pesticide or pest control companies, contracted or used by marijuana facilities to apply pesticides, shall obtain a commercial applicator license through MDARD.
- If a product has a label, applicators shall fully adhere to the label. This includes when using pesticide products in marijuana cultivation, applicators must not use a rate that is higher than the rates listed on the label.

For questions related to pesticide application and labeling, please contact MDARD at 517-284-5655.

The following approved chemical active ingredients are organized by the intended target:

Insecticides and Miticides

- Ammonium salts
- Ammonium nonanoate
- Azadirachtin
- Bacillus subtilis GB03

- Horticultural oils (petroleum oil)
- Insecticidal soaps (potassium salts of fatty acids)
- Isaria fumosorosea

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- Bacillus thuringiensis
- Bacillus thuringiensis sub. kurstaki
- Bacillus thuringiensis sub. israelensis
- Beauveria bassiana
- Beauveria bassiana strain ANT-03
- Beauveria bassiana strain GHA
- Burkholderia spp. strain A396
- Capric acid
- Caprylic acid
- Capsaicin
- Capsicum oleoresin
- Chromobacterium sub strain PRAA4-1 cells
- Chromobacterium substsugae
- Cinnamon and cinnamon oil
- Citric acid
- Farnesol
- Garlic and garlic oil
- Geraniol

Fungicides and Antimicrobials

- Ammonium salts
- Bacillus amyloliquefaciens strain D747
- Beauveria bassiana
- Beauveria bassiana strain ANT-03
- Bacillus pumilus strain GHA 180
- Caprylic acid
- Cloves and clove oil
- Copper hydroxide
- Copper octanoate
- Copper oxychloride
- Corn oil
- Cottonseed oil
- Eugenol
- Fenhexamid
- Gliocladium catenulatum Strain J1446
- Gliocladium virens

Vertebrate Repellants

- Castor oil
- Geraniol

- Linseed oil
- Neem oil
- Nerolidol
- Paecilomyces fumosoroseus
- Paraffinic oil (mineral oil)
- Piperonyl_butoxide
- Potassium bicarbonate
- Potassium sorbate
- Rosemary oil
- Sesame and sesame oil
- Sodium bicarbonate
- Soybean oil
- Sulfur
- Sucrose octanoate
- Sucrose octanoate esters
- Sulfur
- Thyme and thyme oil
- White pepper
- Hydrogen Peroxide
- · Mono and di-potassium salts of
- phosphorous acid
- Neem oil
- Peppermint and peppermint oil
- Peroxyacetic Acid
- Potassium bicarbonate
- Potassium silicate
- Reynoutria sachalinensis extract
- Rosemary and rosemary oil
- Sodium bicarbonate
- Sodium Carbonate Peroxyhydrate
- Streptomyces lydicus wyec 108
- Trichoderma saperellum strain ICC 012
- Trichoderma gamsii strain ICC 080
- Trichoderma harzianum
- Trichoderma harzianum rifai strain KRL-A

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