

## Authorized Pesticide Active Ingredients

Updated January 19, 2018

Revisions in bold

### Section 1000.APPENDIX A Authorized Pesticides

The following is a list of pesticide active ingredients the Department has approved for use on cannabis plants. The pesticide product shall be registered with the Department under the Illinois Pesticide Control Act.

<b>Label Type</b>	<b>Signal Word</b>	<b>Active Ingredient</b>	<b>Concentration</b>
Insect Repellent	Caution	Azadirachtin	0.09%
Insecticide	Caution	Azadirachtin	0.09%
Insecticide	Caution	Azadirachtin	0.60%
Nematicide	Caution	Azadirachtin	0.60%
Fungicide	Caution	Azadirachtin	0.70%
Insect Repellent	Caution	Azadirachtin	0.70%
Insecticide	Caution	Azadirachtin	0.70%
Nematicide	Caution	Azadirachtin	0.70%
Insecticide	Caution	Azadirachtin	1.00%
Insect Repellent	Caution	Azadirachtin	1.20%
Insecticide	Caution	Azadirachtin	1.20%
Nematicide	Caution	Azadirachtin	1.20%
Insecticide	Caution	Azadirachtin	3.00%
Nematicide	Caution	Azadirachtin	3.00%
Nematicide	Warning	Azadirachtin	3.00%
Insect Repellent	Caution	Azadirachtin	4.50%
Insecticide	Caution	Azadirachtin	4.50%
Insecticide	Caution	Azadirachtin	6.00%
Nematicide	Caution	Azadirachtin	6.00%
Fungicide	Caution	Bacillus pumilus strain GHA 180	0.00%
PGR - Growth Stimulator	Caution	Bacillus pumilus strain GHA 180	0.00%
Fungicide	Caution	Bacillus subtilis MBI 600	0.00%
PGR - General	Caution	Bacillus subtilis MBI 600	0.00%
Fungicide	Caution	Bacillus subtilis MBI 600	9.90%
Fungicide	Caution	Bacillus subtilis GB03	0.03%
Fungicide	Caution	Bacillus subtilis QST713 Strain	0.07%
Fungicide	Caution	Bacillus subtilis QST713 Strain	1.34%
Fungicide	Caution	Bacillus subtilis QST713 Strain	14.60%
Fungicide	Caution	Bacillus subtilis var. amyloliquefaciens	25.00%

		strain D747 TGAI	
Fungicide	Caution	Bacillus subtilis var. amyloliquefaciens strain D747 TGAI	98.85%
Insecticide	Caution	Bacillus thuringiensis ssp. aizawai	54%
Insecticide	Caution	Bacillus thuringiensis ssp. israelensis	6.38%
Insecticide	Caution	Bacillus thuringiensis ssp. kurstaki 1	17.19%
Insecticide	Caution	Bacillus thuringiensis ssp. kurstaki 1	54%
Insecticide	Caution	Bacillus thuringiensis ssp. kurstaki 1	58.20%
Insecticide	Caution	Bacillus thuringiensis ssp. kurstaki 7841	40.00%
Insecticide	Caution	Bacillus thuringiensis ssp. kurstaki strain SA-12	9.83%
<b>Insecticide</b>	<b>Caution</b>	<b>Beauveria bassiana Strain GHA</b>	<b>11.3%</b>
Insecticide	Caution	Canola Oil	1.00%
Insecticide	Caution	Canola Oil	89.50%
Fungicide	Caution	Canola Oil	96.00%
Insecticide	Caution	Canola Oil	96.00%
<b>Disinfectant</b>	<b>Danger</b>	<b>Chlorine Dioxide</b>	<b>0.05%</b>
Insecticide	Caution	Chromobacterium sub strain PRAA4-1 cells	30.00%
Insecticide	Caution	Chromobacterium sub strain PRAA4-1 cells	94.50%
Insect Repellent	Caution	Cinnamon	0.03%
Insecticide	Caution	Cinnamon	0.03%
Fungicide	Caution	Cinnamon Oil	0.20%
Insect Repellent	None	Cinnamon Oil	0.20%
Insecticide	Caution	Cinnamon Oil	0.20%
Insecticide	None	Cinnamon Oil	0.20%
Fungicide	Caution	Cinnamon Oil	4%
Insecticide	Caution	Cinnamon Oil	4%
Insecticide	Caution	Citric Acid	0.10%
Fungicide	Danger	Citric Acid	99%
Insecticide	Warning	Citronella Oil	0.42%
Fungicide	Caution	Clarified Hydrophobic Extract of Neem Oil	70.00%
Insecticide	Caution	Clarified Hydrophobic Extract of Neem Oil	70.00%
Fungicide	Caution	Copper Octanoate	0.08%
Fungicide	Caution	Copper Octanoate	10%
Fungicide	Caution	Corn Oil	0.30%
Fungicide	Caution	Corn Oil	30%
Fungicide	Caution	Cottonseed Oil	0.30%
Insecticide	Caution	Cottonseed Oil	0.40%

Fungicide	Caution	Cottonseed Oil	3%
Insecticide	Caution	Cottonseed Oil	3%
Fungicide	Caution	Cottonseed Oil	30%
Insecticide	Caution	Cottonseed Oil	40%
PGR - Crop Quality	Caution	Cytokinins	0.01%
PGR - General	Caution	Cytokinins	0.01%
PGR - Growth Stimulator	Caution	Cytokinins	0.02%
<b>Insecticide</b>	<b>Caution</b>	<b>Diatomaceous Earth</b>	<b>Any</b>
Nematicide	Caution	Dried Ferm. Slds/Slbs of Myrothecium verrucaria	90%
Insecticide	Warning	Farnesol	0.17%
Insect Repellent	Caution	Garlic Oil/Powder	0.03%
Insecticide	Caution	Garlic Oil/Powder	0.03%
Insecticide	Caution	Garlic Oil/Powder	0.10%
Fungicide	Caution	Garlic Oil/Powder	0.23%
Fungicide	Caution	Garlic Oil/Powder	3.00%
Insecticide	Caution	Garlic Oil/Powder	10%
Insect Repellent	Caution	Garlic Oil/Powder	20.00%
Invertebrate Control	Caution	Garlic Oil/Powder	20.00%
Vertebrate Repellent	Caution	Garlic Oil/Powder	20.00%
Fungicide	Caution	Garlic Oil/Powder	23%
Insecticide	Caution	Geraniol	0.30%
Insecticide	Warning	Geraniol	0.42%
PGR - Crop Quality	Caution	Gibberellic Acid	0.00%
PGR - General	Caution	Gibberellic Acid	0.00%
PGR - Crop Quality	Warning	Gibberellic Acid	4%
PGR - General	Caution	Gibberellic Acid	4.00%
PGR - Crop Quality	Caution	Gibberellic Acid	20%
PGR - General	Caution	Gibberellic Acid	20%
PGR - Growth Stimulator	Caution	Gibberellic Acid	20.00%
Fungicide	Caution	Gliocladium virens G-21	12%
Algaecide Slimicide	Danger	Hydrogen Peroxide (Dioxide)	5.34%
Fungicide	Danger	Hydrogen Peroxide (Dioxide)	5.34%
Algaecide Slimicide	Danger	Hydrogen Peroxide (Dioxide)	26.50%
Fungicide	Danger	Hydrogen Peroxide (Dioxide)	26.50%
Algaecide Slimicide	Danger	Hydrogen Peroxide (Dioxide)	27.00%
Algaecide Slimicide	Danger	Hydrogen Peroxide (Dioxide)	27.00%
Disinfectant	Danger	Hydrogen Peroxide (Dioxide)	27.00%
Fungicide	Danger	Hydrogen Peroxide (Dioxide)	27.00%
Algaecide Slimicide	Danger	Hydrogen Peroxide (Dioxide)	27.10%

Fungicide	Danger	Hydrogen Peroxide (Dioxide)	27.10%
Herbicide	Danger	Hydrogen Peroxide (Dioxide)	27.10%
Algaecide Slimicide	Danger	Hydrogen Peroxide (Dioxide)	33.00%
Disinfectant	Danger	Hydrogen Peroxide (Dioxide)	33.00%
Fungicide	Danger	Hydrogen Peroxide (Dioxide)	33.00%
PGR - Crop Quality	Caution	IBA (Indole-3-Butyric Acid)	0.01%
PGR - General	Caution	IBA (Indole-3-Butyric Acid)	0.01%
Fungicide	Caution	IBA (Indole-3-Butyric Acid)	0.01%
PGR - General	Caution	IBA (Indole-3-Butyric Acid)	0.10%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	0.10%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	0.30%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	0.31%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	0.47%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	0.54%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	0.80%
PGR - Growth Stimulator	Caution	IBA (Indole-3-Butyric Acid)	20.00%
Invertebrate Control	Caution	Iron Phosphate (FePO <sub>4</sub> )	1.00%
Insecticide	Caution	Isaria fumosorosea	20%
Fungicide	Caution	Jojoba Oil	97.50%
Insecticide	Caution	Jojoba Oil	97.50%
Fungicide	Caution	Kaolin	95.00%
Insecticide	Caution	Kaolin	95.00%
PGR - General	Caution	Kaolin	95.00%
Vertebrate Repellent	Caution	Kaolin	95.00%
<b>Insecticide</b>	<b>Caution</b>	<b>Metarhizium anisopliae Strain F2</b>	<b>11.0%</b>
Fungicide	Caution	Mineral Oil/Petroleum Distillate	98.00%
Insecticide	Caution	Mineral Oil/Petroleum Distillate	98.00%
Insecticide	Caution	Mineral Oil/Petroleum Distillate	98.80%
Insecticide	Caution	Mineral Oil/Petroleum Distillate Light	1.00%
Fungicide	Caution	Mineral Oil/Petroleum Distillate Light	80%
Insecticide	Caution	Mineral Oil/Petroleum Distillate Light	80%
Insecticide	Caution	Mineral Oil/Petroleum Distillate Light	90.00%
Desiccant	Caution	Mineral Oil/Petroleum Distillate Light	98%
Fungicide	Caution	Mineral Oil/Petroleum Distillate Light	98.00%
Insecticide	Caution	Mineral Oil/Petroleum Distillate Light	98.00%
Fungicide	Caution	Mineral Oil/Petroleum Distillate Light	98.40%
Insecticide	Caution	Mineral Oil/Petroleum Distillate Light	98.40%
Fungicide	Caution	Monopotassium Phosphate	40.80%
Fungicide	Caution	Monopotassium Phosphate	100%
Fungicide	Caution	Neem Oil Cold Pressed	65.80%
Insect Repellent	Caution	Neem Oil Cold Pressed	65.80%

Insecticide	Caution	Neem Oil Cold Pressed	65.80%
Nematicide	Caution	Neem Oil Cold Pressed	65.80%
Insect Repellent	Caution	Neem Oil Cold Pressed	100.00%
Insecticide	Caution	Neem Oil Cold Pressed	100.00%
Insecticide	Warning	Nerolidol	0.42%
Fungicide	Caution	Oil of Clove	0.10%
Insecticide	Caution	Oil of Clove	0.10%
Fungicide	Caution	Oil of Clove	0.20%
Insect Repellent	None	Oil of Clove	0.20%
Insecticide	Caution	Oil of Clove	0.20%
Insecticide	None	Oil of Clove	0.20%
Insect Repellent	Caution	Oil of Clove	1.50%
Insecticide	Caution	Oil of Clove	1.50%
Fungicide	Caution	Oil of Clove	2%
Insecticide	Caution	Oil of Clove	2%
Fungicide	Caution	Oil of Clove	10.00%
Herbicide	Caution	Oil of Clove	10.00%
Insecticide	Caution	Oil of Clove	20%
Fungicide	Caution	Oil of Rosemary	0.05%
Insect Repellent	Caution	Oil of Rosemary	0.05%
Insecticide	Caution	Oil of Rosemary	0.05%
Fungicide	Caution	Oil of Rosemary	0.10%
Insecticide	Caution	Oil of Rosemary	0.10%
Insect Repellent	Caution	Oil of Rosemary	0.23%
Insect Repellent	Caution	Oil of Rosemary	0.53%
Insecticide	Caution	Oil of Rosemary	0.53%
Insecticide	Caution	Oil of Rosemary	0.80%
Fungicide	Caution	Oil of Rosemary	2%
Insect Repellent	Caution	Oil of Rosemary	2.00%
Insecticide	Caution	Oil of Rosemary	2%
Insect Repellent	Caution	Oil of Rosemary	10.00%
Insecticide	Caution	Oil of Rosemary	10.00%
Fungicide	Caution	Oil of Rosemary	18.00%
Herbicide	Caution	Oil of Rosemary	18.00%
Fungicide	None	Oil of Sesame	0.10%
Insecticide	None	Oil of Sesame	0.10%
Fungicide	Caution	Oil of Sesame	5%
Insecticide	Caution	Oil of Sesame	5%
Insecticide	None	Oil of Sesame	5.00%
Fungicide	Caution	Oil of Thyme	0.10%

Insecticide	Caution	Oil of Thyme	0.10%
Fungicide	Caution	Oil of Thyme	1.20%
Fungicide	Caution	Oil of Thyme	2%
Insecticide	Caution	Oil of Thyme	2%
Fungicide	Caution	Oil of Thyme	4%
Fungicide	Caution	Oil of Thyme	10.00%
Herbicide	Caution	Oil of Thyme	10.00%
Algaecide Slimicide	Caution	Oregano Oil	1.00%
Fungicide	Caution	Oregano Oil	1.00%
Herbicide	Caution	Oregano Oil	1.00%
Insect Repellent	Caution	Peppermint	0.04%
Insecticide	Caution	Peppermint	0.04%
Insecticide	Caution	Peppermint	0.40%
Insecticide	Caution	Peppermint	0.80%
Insecticide	Caution	Peppermint	2.00%
Algaecide Slimicide	Danger	Peroxyacetic Acid	1.36%
Fungicide	Danger	Peroxyacetic Acid	1.36%
Algaecide Slimicide	Danger	Peroxyacetic Acid	2.00%
Fungicide	Danger	Peroxyacetic Acid	2.00%
Herbicide	Danger	Peroxyacetic Acid	2.00%
Algaecide Slimicide	Danger	Peroxyacetic Acid	4.90%
Fungicide	Danger	Peroxyacetic Acid	4.90%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	28.10%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	45.50%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	45.80%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	53%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	53.60%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	56.00%
PGR - General	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	56.00%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	56.20%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	57.00%
Fungicide	Caution	Phosphorous Acid Mono- And Di-Potassium, Salts of	99.00%

Fungicide	Caution	Piperonyl Butoxide	2.50%
Insecticide	Caution	Piperonyl Butoxide	2.50%
Insecticide	Caution	Piperonyl Butoxide	4.00%
Insecticide	Caution	Piperonyl Butoxide	16.00%
Insect Repellent	Caution	Piperonyl Butoxide	60.00%
Insecticide	Caution	Piperonyl Butoxide	60.00%
Fungicide	Caution	Potassium Bicarbonate	81.90%
Fungicide	Caution	Potassium Bicarbonate	85.00%
Insecticide	Caution	Potassium Laurate	1%
Insecticide	Caution	Potassium Laurate	1.02%
Fungicide	Caution	Potassium Laurate	12.38%
Insecticide	Caution	Potassium Laurate	12.38%
Insecticide	Caution	Potassium Laurate	19.90%
Insecticide	Caution	Potassium Laurate	20.00%
Insecticide	Warning	Potassium Laurate	47%
Fungicide	Warning	Potassium Laurate	49.00%
Insecticide	Warning	Potassium Laurate	49.00%
Insecticide	Warning	Potassium Laurate	49.52%
Fungicide	Caution	Pyrethrins	0.01%
Insecticide	Caution	Pyrethrins	0.01%
Insecticide	Caution	Pyrethrins	0.24%
Fungicide	Caution	Pyrethrins	0.25%
Insecticide	Caution	Pyrethrins	0.25%
Insecticide	Caution	Pyrethrins	0.50%
Insecticide	Caution	Pyrethrins	1.40%
Insecticide	Caution	Pyrethrins	4.00%
Insect Repellent	Caution	Pyrethrins	5.00%
Insecticide	Caution	Pyrethrins	5.00%
Insect Repellent	Caution	Pyrethrins	6.00%
Insecticide	Caution	Pyrethrins	6.00%
Fungicide	Caution	Pythium oligandrum DV 74	1.00%
PGR - Growth Stimulator	Caution	Pythium oligandrum DV 74	1.00%
Fungicide	Caution	Reynoutria sachalinensis	5%
PGR - General	Caution	Reynoutria sachalinensis	5%
Insect Repellent	Caution	Rosemary Herbs	10.00%
Insect Repellent	Caution	Sesame Plant Ground	0.05%
Insecticide	Caution	Sesame Plant Ground	0.05%
<b>Insecticide</b>	<b>Caution</b>	<b>Silicon Dioxide</b>	<b>Any</b>
Invertebrate Control	Caution	Sodium Ferric EDTA	2.00%
Invertebrate Control	Caution	Sodium Ferric EDTA	5.00%

Fungicide	Caution	Sorbic Acid Potassium Salt	0.01%
Insecticide	Caution	Sorbic Acid Potassium Salt	0.01%
Insecticide	Warning	Sorbitol Octanoate	90.00%
Insecticide	Caution	Soybean Oil	93%
Fungicide	Caution	Streptomyces griseoviridis strain K61	4%
Fungicide	Caution	Streptomyces griseoviridis strain K61	35%
Fungicide	Caution	Streptomyces lydicus WYEC 108	0.04%
Fungicide	Caution	Streptomyces lydicus WYEC 108	1.30%
Fungicide	Caution	Sulfur	0.20%
Insecticide	Caution	Sulfur	0.20%
Fungicide	Caution	Sulfur	6.48%
Insecticide	Caution	Sulfur	6.48%
Fungicide	Caution	Sulfur	10.00%
Insecticide	Caution	Sulfur	10.00%
Fungicide	Caution	Sulfur	12%
Insect Repellent	Caution	Thyme Herbs	0.03%
Insecticide	Caution	Thyme Herbs	0.03%
Fungicide	Caution	Trichoderma asperellum strain ICC 012	2.00%
Fungicide	Caution	Trichoderma gamsii strain ICC 080	2.00%
Fungicide	Caution	Trichoderma harzianum Rifai strain KRL-AG2	1.15%
Fungicide	Caution	Trichoderma virens strain G-41	0.61%