

Authorized Pesticide Active Ingredients

Updated April 15, 2016

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.

Label Type	Signal Word	Active Ingredient	Concentration
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%
Insecticide	Caution	Canola Oil	1.00%
Insecticide	Caution	Canola Oil	89.50%
Fungicide	Caution	Canola Oil	96.00%
Insecticide	Caution	Canola Oil	96.00%
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%
Insecticide	Caution	Diatomaceous Earth	Any
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 ₄)	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%
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%
Insecticide	Caution	Silicon Dioxide	Any
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%