

LISTINGS

1, 4 Dimethyl-naphthalene

Class: CT

NOP Rule: 205.105(a)

Prohibited

Synthetic

Acetic Acid – nonsynthetic

Class: CT, CF

Uses for nonsynthetic (natural) acetic acid include drip irrigation cleaner, adjuvant to adjust the pH of sprays, stabilizer for liquid fish products, and minimum risk inert (List 4B) in a pesticide formulation. Solutions that contain less than 8% acetic acid are vinegar. See also VINEGAR – NONSYNTHETIC and INERTS – LIST 4.

NOP Rule: 205.105 & 205.601(m)

Allowed

Nonsynthetic

Acetic Acid – nonsynthetic, pesticide

Class: CP

May be used as a pesticide only if the requirements of 205.206(e) are met. See Glossary for definition of “pesticide.”

NOP Rule: 205.206(b)(3), 205.206(d)(2) & 205.206(e)

Restricted

Nonsynthetic

Acetic Acid – synthetic

Class: CP

Synthetic sources not permitted as active pesticidal ingredients. May be used as both an adjuvant or inert ingredient in combination with active pesticidal substances [excluding 25(b) exempt pesticides]. Solutions that contain less than 8% acetic acid are vinegar. See also VINEGAR – SYNTHETIC and INERTS – LIST 4.

NOP Rule: 205.105(a) & 205.601(m)

Prohibited

Synthetic

Adjuvants – for pesticide use

Class: CT

Synthetic adjuvants must explicitly appear on the National List for this application or use. EPA Inert Ingredients List 4 are restricted and may be used only with EPA registered pesticides or active ingredients considered “25b exempt” from FIFRA registration. See also OILS, PETROLEUM-BASED – NARROW RANGE; SOAPS, AMMONIUM and INERTS listings. List 3 inert ingredients may be used only in passive dispensers of EPA registered pheromones. See Glossary for definition of “adjuvants” and “pesticide.”

NOP Rule: 205.601(m) *As synthetic inert ingredients as classified by the Environmental Protection Agency (EPA), for use with nonsynthetic substances or synthetic substances listed in this section and used as an active pesticide ingredient in accordance with any limitations on the use of such substances at: (1) EPA List 4—Inerts of Minimal Concern. (2) EPA List 3—Inerts of Unknown Toxicity allowed: (i) ingredients may be used only in passive dispensers of EPA registered pheromones.*

Restricted

Synthetic

Adjuvants – nonsynthetic

Class: CT

Allowed unless explicitly prohibited. See Glossary for definition of “adjuvants.”

NOP Rule: 205.105

Allowed

Nonsynthetic

Adjuvants – synthetic

Class: CT

All synthetic adjuvants that are not listed as allowed or restricted are prohibited. Specifically, aromatic petroleum solvents and materials on EPA Inert Ingredients Lists 1, 2, and most of 3 are prohibited. See also INERTS listings. See glossary for definition of “adjuvants.”

NOP Rule: 205.105(a)

Prohibited

Synthetic

Alcohol

Class: CT

NOP Rule: 205.105 *Allowed from nonsynthetic sources.*

Allowed

Nonsynthetic

Alcohol, Ethyl (Ethanol)

Class: CT

May be used as an algicide, disinfectant or sanitizer, including irrigation system cleaner. May be used as an adjuvant or inert ingredient in combination with active pesticidal ingredients [excluding 25(b) exempt pesticides]. See also INERTS – LIST 4.

NOP Rule: 205.601(a)(1)(i)

Restricted

Synthetic

Alcohol, Isopropyl (Isopropanol)

Class: CT

May be used as a disinfectant or inert ingredient.

NOP Rule: 205.601(a)(1)(ii) *Isopropanol may be used as an algicide, disinfectant, and sanitizer, including irrigation system cleaning systems.*

Restricted

Synthetic

Alfalfa Meal or Pellets

Class: CF

Pelletization process must not involve prohibited materials.

NOP Rule: 205.203(c)(3) *Uncomposted plant materials.*

Allowed

Nonsynthetic

Algae

Class: CF

See also AQUATIC PLANT PRODUCTS listings.

NOP Rule: 205.203(c)(3) *Uncomposted plant materials.*

Allowed

Nonsynthetic

Amino Acids – nonsynthetic

Class: CF, CT

Amino acids produced by plants, animals, and microorganisms that have not been genetically modified (see Glossary) and are extracted or isolated by hydrolysis, or by physical or other nonchemical means are considered nonsynthetic. Nonsynthetic amino acids may be used as plant growth regulators and chelating agents.

NOP Rule: 205.105**Allowed**

Nonsynthetic

Amino Acids – synthetic

Class: CF, CT

Amino acids that are considered to be synthetically produced and/or produced from genetically modified organisms are prohibited. See also GENETICALLY MODIFIED ORGANISMS.

NOP Rule: 205.105(a) & (e)**Prohibited**

Synthetic

Ammonia Products

Class: CF

All synthetic ammonia products are prohibited for crop nutrition including: anhydrous ammonia, aqua ammonia, ammonium forms of micronutrients (see also AMMONIATED MICRONUTRIENTS), ammonium nitrate, ammonium phosphate, ammonium sulfate, and ammonium soaps.

NOP Rule: 205.105(a)**Prohibited**

Synthetic

Ammoniated Micronutrients

Class: CF

Includes ammonium molybdate, ammonium pentaborate, ammoniated zinc chloride, and ferrous ammonium sulfate. See also MICRONUTRIENTS – SYNTHETIC, PROHIBITED.

NOP Rule: 205.105(a)**Prohibited**

Synthetic

Ammonium Carbonate

Class: CT

For use as bait in insect traps only. Cannot be in contact with crop or soil.

NOP Rule: 205.601(e)(1)**Restricted**

Synthetic

Animal By-products and Materials

Class: CF

Parts of an animal and animal by-products that have specific uses in soil fertility are allowed. Includes meat, bone meal, and animal urine. Leather by-products are prohibited. See listings under individual generic materials.

NOP Rule: 205.105**Allowed**

Nonsynthetic

Antibiotics – prohibited

Class: CP

Synthetic antibiotics are prohibited unless explicitly listed. Avermectin is prohibited in plant crop production.

NOP Rule: 205.105(a)**Prohibited**

Synthetic

Antibiotics, Avermectin

See AVERMECTIN.

Antibiotics, Streptomycin Sulfate

Class: CP

Permitted for use as a fire blight control in apples and pears only.

See also STREPTOMYCIN SULFATE.

NOP Rule: 205.601(i)(10) *As plant disease control... For fire blight control in apples and pears only. [Lists as streptomycin.]***Restricted**

Synthetic

Antibiotics, Tetracycline**(Oxytetracycline Calcium Complex)**

Class: CP

Permitted for use as a fire blight control in apples and pears only.

See also TETRACYCLINE.

NOP Rule: 205.601(i)(11) *As plant disease control... For fire blight control only. [Lists as Tetracycline.]***Restricted**

Synthetic

Anti-coagulants

Class: CP

Prohibited anti-coagulants include diphacinone and chlorophacinone. May not be used directly or in bait stations on certified land.

NOP Rule: 205.105(a)**Prohibited**

Synthetic

Aquatic Plant Products – nonsynthetic

Class: CF

Aquatic plants that have not been synthetically extracted or stabilized are allowed.

NOP Rule: 205.203(c)(3) *Uncomposted plant materials.***Allowed**

Nonsynthetic

Aquatic Plant Products – prohibited

Class: CF, CP

Aquatic plant products are prohibited if they contain synthetic preservatives, such as formaldehyde, are extracted by synthetic solvents not on the National List, or are fortified with otherwise prohibited plant nutrients, including phosphoric acid or solvents that exceed the amount necessary for extraction. Potassium hydroxide extracted aquatic plant products may not be blended with synthetically extracted humic acid derivatives. Aquatic plant products that are chemically reacted with extractants may not be used as plant growth regulators.

NOP Rule: 205.105(a)**Prohibited**

Synthetic

Aquatic Plant Products – synthetically extracted

Class: CF

Nonsynthetic extracts are allowed. Synthetic extraction process is limited to the use of potassium hydroxide or sodium hydroxide; solvent amount used is limited to that amount necessary for extraction. Aquatic plant products are prohibited if they contain synthetic preservatives such as formaldehyde, or are fortified with otherwise prohibited plant nutrient sources.

NOP Rule: 205.601(j)(1) *As plant or soil amendments... Aquatic plant extracts (other than hydrolyzed)—Extraction process is limited to the use of potassium hydroxide or sodium hydroxide; solvent amount used is limited to that amount necessary for extraction.***Allowed**

Synthetic

Class Codes

CF: Crop Fertilizers and Soil Amendments

CP: Crop Pest, Weed, and Disease Control

CT: Crop Management Tools and Production Aids