

**Sunset 2017
NOSB Final Review
Crops Substances
October 2015**

As part of the National List Sunset Review process, the NOSB has evaluated the need for the continued allowance for or prohibition of the following substances for use in organic crop production.

Reference: 7 CFR §205.601 Synthetic substances allowed for use in organic crop production.

[Alcohol: Ethanol](#)

[Alcohol: Isopropanol](#)

[Chlorine Materials: Calcium hypochlorite,](#)

[Chlorine dioxide, Sodium hypochlorite](#)

[Hydrogen peroxide](#)

[Soap-based algicide/demossers](#)

[Herbicides, soap-based](#)

[Newspaper or other recycled paper](#)

[Plastic mulch and covers](#)

[Soaps, ammonium](#)

[Ammonium carbonate](#)

[Boric acid](#)

[Elemental sulfur](#)

[Lime sulfur](#)

[Oils, horticultural](#)

[Soaps, insecticidal](#)

[Sticky traps/barriers](#)

[Sucrose octanoate esters](#)

[Pheromones](#)

[Vitamin D3](#)

[Coppers, fixed](#)

[Copper sulfate](#)

[Hydrated lime](#)

[Potassium bicarbonate](#)

[Aquatic plant extracts](#)

[Humic acids](#)

[Lignin sulfonate\(j\)4](#)

[Lignin sulfonate\(l\)1](#)

[Magnesium sulfate](#)

[Micronutrients: Soluble boron products,](#)

[Sulfates, carbonates, oxides, or silicates of zinc,](#)

[copper, iron, manganese, molybdenum,](#)

[selenium, and cobalt](#)

[Liquid fish products](#)

[Vitamin B1, C, E](#)

[Ethylene](#)

[Sodium silicate](#)

[EPA List 4 - Inerts of Minimal Concern](#)

[Microcrystalline cheesewax](#)

205.602 Prohibited nonsynthetic substances

[Ash from manure burning](#)

[Arsenic](#)

[Lead salts](#)

[Potassium chloride](#)

[Sodium fluoaluminate](#)

[Strychnine](#)

[Tobacco dust \(nicotine sulfate\)](#)

Links to additional references and supporting materials for each substance can be found on the NOP website: <http://www.ams.usda.gov/rules-regulations/organic/national-list/petitioned>

Alcohols - ethanol

Reference: 205.601(a)(1)

(i) Ethanol. As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems.

Technical Report(s): 1995 TAP; [01/2014 TR - Ethanol](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/2017

[Subcommittee Review](#)

NOSB Review:

There was strong public support for continued use of ethanol as an algicide, disinfectant, and sanitizer, including irrigation cleaning systems. Based on the Subcommittee review and public comment, the NOSB finds Alcohols - ethanol compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove ethanol from §205.601(a)(1)

Motion by: Francis Thicke

Seconded by: Harold Austin

Yes: 0 No: 13 Abstain: 0 Absent: 1 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Alcohols - isopropanol

Reference: 205.601(a)(1)

(ii) Isopropanol. As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems.

Technical Report(s): 1995 TAP; [02/2014 TR - Isopropanol](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote ; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/2017

[Subcommittee Review](#)

NOSB Review:

There was wide public support for continued listing of isopropanol as algicide, disinfectants, and sanitizer, including irrigation system cleaning systems. Based on the Subcommittee review and public comment, the NOSB finds Alcohols – isopropanol compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove isopropanol from §205.601(a)(1)

Motion by: Francis Thicke

Seconded by: Harold Austin

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Chlorine materials - Calcium Hypochlorite

Reference: 205.601(a) - As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems. (2) Chlorine materials -For pre-harvest use, residual chlorine levels in the water in direct crop contact or as water from cleaning irrigation systems applied to soil must not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act, except that chlorine products may be used in edible sprout production according to EPA label directions.

(i) Calcium hypochlorite

Technical Report(s): [1995 TAP](#); [2006 TR](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/27/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)**NOSB Review:**

There was significant public support for continued allowance of the use of chlorine materials in crop production, as well as in livestock production and handling. However, there was also concern expressed in public comments that chlorine materials are highly caustic, a concern for occupational exposure, and detrimental to the environment, and that organic production should be as chlorine-free as possible. It was suggested that in the future the NOSB should do an in-depth analysis of how widely chlorine sanitizing materials are used, where chlorine use is required by law, and where more benign sanitizers

could be substituted. Based on the Subcommittee review and public comment, the NOSB finds calcium hypochlorite compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Calcium hypochlorite from §205.601(a)

Motion by: Francis Thicke

Seconded by: Colehour Bondera

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Chlorine materials - Chlorine Dioxide

Reference: 205.601(a) - As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems. (2) Chlorine materials - For pre-harvest use, residual chlorine levels in the water in direct crop contact or as water from cleaning irrigation systems applied to soil must not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act, except that chlorine products may be used in edible sprout production according to EPA label directions.

(ii) Chlorine dioxide

Technical Report(s): [1995 TAP](#); [2006 TR](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote ; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/27/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was a lot of public support for continued allowance of the use of chlorine materials in crop production, as well as in livestock production and handling. However, there was also concern expressed in public comments that chlorine materials are highly caustic, a concern for occupational exposure, and detrimental to the environment, and that organic production should be as chlorine-free as possible. It was suggested that in the future the NOSB should do an in-depth analysis of how widely chlorine sanitizing materials are used, where chlorine use is required by law, and where more benign sanitizers could be substituted.

Based on the Subcommittee review and public comment, the NOSB finds chlorine dioxide compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Chlorine dioxide from §205.601(a)

Motion by: Francis Thicke

Seconded by: Carmela Beck

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Chlorine materials - Sodium Hypochlorite

Reference: 205.601(a) - As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems. (2) Chlorine materials -For pre-harvest use, residual chlorine levels in the water in direct crop contact or as water from cleaning irrigation systems applied to soil must not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act, except that chlorine products may be used in edible sprout production according to EPA label directions.

(iii) Sodium hypochlorite

Technical Report(s): [1995 TAP](#); [2006 TR](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote ; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/27/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was a lot of public support for continued allowance of the use of chlorine materials in crop production, as well as in livestock production and handling. However, there was also concern expressed in public comments that chlorine materials are highly caustic, a concern for occupational exposure, and detrimental to the environment, and that organic production should be as chlorine-free as possible. It was suggested that in the future the NOSB should do an in-depth analysis of how widely chlorine sanitizing materials are used, where chlorine use is required by law, and where more benign sanitizers could be substituted.

Based on the Subcommittee review and public comment, the NOSB finds sodium hypochlorite compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Sodium hypochlorite §205.601(a)

Motion by: Francis Thicke

Seconded by: Colehour Bondera

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Hydrogen peroxide

Reference: 205.601(a)(4) - As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems.

Reference 205.601(i)(5) - As plant disease control.

Technical Report(s): [1995 TAP](#); [2015 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote ; 11/2005 NOSB sunset recommendation - deferred; 06/2006 sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The NOSB found the material to meet OFPA criteria and has no objection to continued listing. No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds hydrogen peroxide compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove hydrogen peroxide from §205.601(a) and §205.601(i)

Motion by: Zea Sonnabend

Seconded by: Carmela Beck/Harold Austin

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Soap-based algicide/demossers

Reference: 205.601(a)(7) - As algicide, disinfectants, and sanitizer, including irrigation system cleaning systems.

Technical Report(s): [1996 TAP](#); [2015 TR](#)

Petition(s): N/A

Past NOSB Actions: Actions: 09/1996 NOSB recommendation; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The Crops Subcommittee voted to delist soap-based algicide/demossers because it was thought that they were no longer used in organic crop production, and therefore it was not necessary to keep soap-based algicide/demossers on the National List. However, some public comments indicated that these materials were still being used by some producers.

Based on the public comment, the NOSB finds soap-based algicide/demossers compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Soap-based algicide/demossers from §205.601(a)(7)

Motion by: Francis Thicke

Seconded by: Carmela Beck

Yes: 8 No: 5 Abstain: 1 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Herbicides, soap-based/ (Soaps, herbicidal)

Reference: 205.601(b) As herbicides, weed barriers, as applicable (1) herbicides soap-based—for use in farmstead maintenance (roadways, ditches, right of ways, building perimeters) and ornamental crops.

Technical Report: [1996 TAP](#); [2015 TR](#)

Petition(s): N/A

Past NOSB Actions: Actions: [1996 recommendation](#); [11/2005 NOSB sunset recommendation](#); 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

Public comments favored keeping soap-based herbicides on the National List. Comments indicated that though soap-based herbicides are sometimes only marginally effective, they are a safe alternative, and some farmers rely on them for weed control on farmstead, roadways, and other places they are approved for use.

Based on the Subcommittee review and public comment, the NOSB finds soap-based herbicides compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Herbicides, soap-based from §205.601(b)

Motion by: Francis Thicke

Seconded by: Harold Austin

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Newspaper or other recycled paper

Reference: 205.601(b) As herbicides, weed barriers, as applicable. (2) Mulches. (i) newspapers or other recycled paper, without glossy or colored inks.

Reference: 205.601(c) - As compost feedstocks - Newspapers or other recycled paper, without glossy or colored inks.

Technical Report: 1995 TAP; 2006 TAP

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote ; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 (77 FR 33290)

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

Several questions were raised during the NOSB review from members and the public that indicated that a Technical Report (TR) would be worthwhile for review of this material. While no substantiated issues of concern were raised regarding the OFPA criteria, not enough is known about the ingredients in newspaper and their fate in the environment. The full board voted to renew this listing, but will be discussing requesting a TR. The NOSB finds newspaper or other recycled paper compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove newspaper or other recycled paper from §205.601(b) and §205.601(c)

Motion by: Harold Austin

Seconded by: Carmela Beck

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Plastic mulch and covers

Reference: 205.601(b) As herbicides, weed barriers, as applicable. (2) Mulches. (ii) Plastic mulch and covers (petroleum-based other than polyvinyl chloride (PVC)).

Technical Report: 1995 TAP

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 (77 FR 33290)

Sunset Date: 6/27/17

Subcommittee Review**NOSB Review:**

No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds plastic mulch and covers compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove plastic mulch and covers from §205.601(j)

Motion by: Harold Austin

Seconded by: Francis Thicke

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Soaps, ammonium

Reference: 205.601(d) As animal repellents—Soaps, ammonium—for use as a large animal repellent only, no contact with soil or edible portion of crop.

Technical Report: [1999 TAP](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There were few public comments on ammonium soaps, but they favored allowing continued use of ammonium soaps as a large animal repellent, though comments also questioned the efficacy of this material as a repellent. The NOSB finds ammonium soaps compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Soaps, ammonium from §205.601(d)

Motion by: Zea Sonnabend

Seconded by: Carmela Beck

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Ammonium carbonate

Reference: 205.601(e) As insecticides (including acaricides or mite control). (1) ammonium carbonate — for use as bait in insect traps only, no direct contact with crop or soil.

Technical Report: [1995 TAP](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote ; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/2017

[Subcommittee Review](#)

NOSB Review:

No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds ammonium carbonate compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Ammonium carbonate from §205.601(i)

Motion by: Harold Austin

Seconded by: Carmela Beck

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Boric acid

Reference: 205.601(e) As insecticides (including acaricides or mite control). (3)Boric acid - structural pest control, no direct contact with organic food or crops.

Technical Report: 1995 TAP

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)**NOSB Review:**

No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds boric acid compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Boric Acid from §205.601(e)

Motion by: Colehour Bondera

Seconded by: Carmela Beck

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Elemental sulfur

Reference: 205.601(e)(5) - As insecticides (including acaricides or mite control).

Reference: 205.601(i)(10) - As plant disease control.

Reference: 205.601(j)(2) - As plant or soil amendments.

Technical Report: [1995 TAP](#)

Petition(s): N/A

Past NOSB Actions: Actions: [04/1995 NOSB minutes and vote](#); [11/2005 NOSB sunset recommendation](#); [04/2010 sunset recommendation](#); [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The full NOSB after its review and hearing public comments (written and oral) received from both the spring and fall meetings, as well as oral comments provided both in person at each meeting, plus during the two webinars for oral comments, has completed this Sunset Review cycle. There was over-whelming support for the continued listing of this material. Organic stakeholders provided a clear message to the full NOSB that this material still remains a necessary tool in organic crop production. There was no new information provided or concerns raised that would show cause for this material not to continue to be allowed on the National List for use in organic crop production.

Based on the Subcommittee review and public comment, the NOSB finds elemental sulfur compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Elemental Sulfur from the National List at §205.601 (e)(5), §205.601 (i)(10), and §205.601 (j)(2).

Motion by: Harold V. Austin IV

Seconded by: Carmela Beck

Yes: 1 No: 13 Abstain: 0 Recuse: 0 Absent : 0

Outcome: Motion failed. NOSB completed its sunset review.

Lime sulfur

Reference: 205.601(e)(6) - As insecticides (including acaricides or mite control).

Reference: 205.601(i)(6) - As plant disease control.

Technical Report: [1995 TAP](#); [2014 TR](#)

Petition(s): N/A

Past NOSB Actions: **Actions:** [04/1995 NOSB minutes and vote](#); [11/2005 NOSB sunset recommendation](#); [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was a Limited Scope Technical Review provided to the Subcommittee that provided specific details on possible alternative materials and alternative practices. Public comments provided details as to why Lime sulfur still remains a necessary material in organic crop production and that while there may be alternative materials available, they do not always provide the same level of control under varying conditions. One critical factor that was pointed out is that the use of lime sulfur has actually increased with the loss of the two antibiotics previously allowed to control fire blight, as a partial replacement material. There was over-whelming support for the continued listing of this material. While a concern was raised over possible impact on non-target organisms or insects, discussions suggested that these concerns would be mitigated if proper label use instructions were followed.

Based on discussion, review, and extensive public comments the NOSB feels that there were no concerns raised that would show cause for this material not to continue to be allowed on the National List for use in organic crop production. The NOSB finds lime sulfur compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to Remove lime sulfur from §205.601 (e)(6) as insecticides (including acaricides or mite control) and §205.601 (j)(6)

Motion by: Harold V. Austin IV

Seconded by: Carmela Beck

Yes: 1 No: 13 Abstain: 0 Recuse: 0 Absent: 0

Outcome: Motion failed. NOSB completed its sunset review.

Oils, horticultural

Reference: 205.601(e)(7) - As insecticides (including acaricides or mite control). —narrow range oils as dormant, suffocating, and summer oils.

Reference: 205.601(i)(7) As plant disease control. - narrow range oils as dormant, suffocating, and summer oils.

Technical Report: 1995 TAP

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 04/2006 sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was over-whelming support for the continued listing of this material. Organic stakeholders provided a clear message to the full NOSB that this material remains a necessary tool in organic crop production and in fact has increased in use due to the recent growth of organic production. Public comments help to explain how these materials are used and why. It was also pointed out during public comment that these oils are allowed for use world-wide by most organic certifying bodies for use in organic crop production.

Based on the Subcommittee review and public comment, the NOSB finds horticultural oils compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Horticultural Oil from §205.601(e) and §205.601(i)

Motion by: Harold V. Austin IV

Seconded by: Francis Thicke

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Soaps, insecticidal

Reference: 205.601(e)(8) - As insecticides (including acaricides or mite control).

Technical Report: [1994 TAP](#)

Petition(s): N/A

Past NOSB Actions: [04/1995 NOSB minutes and vote](#); 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

Public comments indicated that some organic producers use insecticidal soaps regularly, and some rated insecticidal soaps as critical to the success of their operation. Insecticidal soaps are considered to be a relatively nontoxic insecticide alternative. Based on the Subcommittee review and public comment, the NOSB finds insecticidal soaps compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Insecticidal soaps from §205.601(e)(8)

Motion by: Francis Thicke

Seconded by: Harold Austin

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Sticky traps/barriers

Reference: §205.601(e) As insecticides (including acaricides or mite control).
(9) Sticky traps/barriers.

Technical Report: 1995 TAP

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 (77 FR 33290) Sunset Date: 6/27/17

Subcommittee Review**NOSB Review:**

No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds sticky traps/barriers compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove sticky traps from §205.601(e)

Motion by: Francis Thicke

Seconded by: Carmela Beck

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Sucrose octanoate esters

Reference: 7 CFR 205.601(e), 205.603(b)

Technical Report: [Livestock 2005 Technical Report](#); [Crops 2005 Technical Report](#)

Petition(s): [2004 Sucrose Octanoate Esters](#); [Amendment #1](#); [Amendment #2](#)

Past NOSB Actions: [08/2005 NOSB recommendation for addition to NL](#); [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

Minimal public input was received on this material, but the comments received favored its continued listing for control of soft-bodied insects. This material is registered with the EPA as a biopesticide with no persistence in the environment and no known risks to the environment.

Based on the Subcommittee review and public comment, the NOSB finds sucrose octanoate esters compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Sucrose octanoate esters from §205.601(e)

Motion by: Paula Daniels

Seconded by: Harold Austin

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Pheromones

Reference: 205.601(f) - as insect management.

Technical Report: 1995 TAP; 2012 TR

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

After reviewing both historic and current information, review of written public comments, and listening to oral testimony given both in person at the spring and fall meetings, as well as during the two oral comment webinars, the NOSB has completed its review of this material for this current Sunset Review cycle. There was over-whelming support from organic stakeholders for the continued listing of this material. While there have been some concerns raised over the inerts used in the passive pheromone dispensers, that is a separate issue covered in the inerts listing of the National List and does not pertain specifically to this material discussion.

Organic crop producers provided clear messaging that pheromones help to provide the foundation for a safe and effective control of numerous pests that pose a risk in a variety of crops produced.

There was no new information provided or concerns raised that would show cause for this material not to continue to be allowed on the National List for use in organic crop production.

Based on the Subcommittee review and public comment, the NOSB finds this material compliant with OFPA criteria, and does not recommend removal from the National List.

Vote in Crops Subcommittee

Motion to remove Pheromones from §205.601(f)

Motion by: Harold V. Austin IV

Seconded by: Carmela Beck

Yes: 1 No: 13 Abstain: 0 Absent: Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Vitamin D3

Reference: 205.601(g) - as rodenticides.

Technical Report: [1995 TAP](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds Vitamin D3 compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove vitamin D from §205.601(g)

Motion by: Paula Daniels

Seconded by: Harold Austin

Yes: 3 No: 11 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Coppers, fixed

Reference: 205.601(i) As plant disease control. (2) Coppers, fixed —copper hydroxide, copper oxide, copper oxychloride, includes products exempted from EPA tolerance, *Provided*, That, copper-based materials must be used in a manner that minimizes accumulation in the soil and shall not be used as herbicides.

Technical Report: [1995 TAP](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB meeting minutes and vote; 11/2005 NOSB sunset recommendation; [04/2011 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)**NOSB Review:**

The NOSB completed the sunset review for copper hydroxide, copper oxide, and copper oxychloride. The NOSB review of this material acknowledges that copper is both harmful in the environment when misused and absolutely necessary to grow many crops to protect against disease. The public made many suggestions for further annotations that would be more specific about avoiding hazards of copper. However the board did not feel that any of them were workable as annotation language at this time, or would be best covered under applicator safety regulations or instructions to certifiers. The NOSB urged the NOP to provide clear guidance to ACAs on enforcement of the existing annotation. Additionally, study of the uses of copper and their alternatives has been added to the NOSB Research Priorities for 2015 so that additional research can be underway by the time of the next sunset review.

Based on the Subcommittee review and public comment, the NOSB finds these materials compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Coppers, fixed from §205.601(i)

Motion by: Zea Sonnabend

Seconded by: Harold Austin

Yes: 2 No: 12 Abstain: 0 Absent: Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Copper sulfate

Reference: 205.601(i) As plant disease control. (3) Copper sulfate —Substance must be used in a manner that minimizes accumulation of copper in the soil.

Technical Report: [1995 TAP](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB meeting minutes and vote; 11/2005 NOSB sunset recommendation; [04/2011 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

Subcommittee Review

See Coppers, fixed.

[Subcommittee Review](#)**NOSB Review:**

See Coppers, fixed

Vote

Motion to remove Copper Sulfate from §205.601(i):

Motion by: Zea Sonnabend

Seconded by: Harold Austin

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Hydrated lime

Reference: 205.601(i)(4) - As plant disease control.

Technical Report: 1995 TAP; 2001 TAP; 2002 TR for Calcium Hydroxide

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 04/2006 sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The NOSB completed the sunset review for hydrated lime. No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds this material compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Hydrated Lime from §205.601(i)(4)

Motion by: Zea Sonnabend

Seconded by: Francis Thicke

Yes: 0 No: 13 Abstain: 0 Absent: 1 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Potassium bicarbonate

Reference: 205.601(i)(9) - As plant disease control.

Technical Report:1999 TAP; 2015 TR

Petition(s): N/A

Past NOSB Actions: 10/1999 NOSB meeting minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

NOSB Review:

There was a limited scope Technical Review (TR) provided to the subcommittee during this current review process. While the new TR provided possible alternative materials or practices that might replace this material further clarification was sought from the actual organic stakeholders that relied upon this material to help explain under what conditions or scenarios these might apply. Organic producers responded that while there are alternative materials and/or practices, that potassium bicarbonate was still very necessary to their crop production practices. They provided comments stating that it was still important as part of their powdery mildew resistance management process. Also, because of its unique mode of action it helped to control not only powdery mildew but other diseases under certain conditions or scenarios better than the alternative materials or practices.

There was overwhelming support for the continued listing of this material. There was one concern raised that this material actually did not fit into any of the categories listed under §6517(c)(1)(B)(i) of OFPA. That concern was answered during the fall meeting and is duly recorded into the minutes of said meeting. Thus, there was no new information provided or concerns raised that would show cause for this material not to continue to be allowed on the National List for use in organic crop production.

Based on the Subcommittee review and extensive public comment (both written and oral public comments provided at the spring and fall meetings, as well as during two webinars for oral testimony, and open discussion during the meeting), the NOSB finds potassium bicarbonate compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Potassium Bicarbonate from §205.601(i)(9)

Motion by: Harold V. Austin IV

Seconded by: Carmela Beck

Yes: 1 No: 12 Abstain: 1 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Aquatic plant extracts

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

Technical Report: [2006 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 NOSB minutes and vote; 04/2006 sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was public comment support in favor of relisting Aquatic Plant Extracts. It is in active use by the trade and continues to be considered necessary to the production of fruit and vegetables. In our proposal, the Subcommittee identified concern about potential seaweed overharvesting. Extensive written public comment was received on this issue but was very regional in nature. The Board will prioritize review of this topic to determine if a Technical Report (TR) should be requested across subcommittees on all the marine plants to help inform potential future Board action on this topic. Based on the Subcommittee review and public comment, the NOSB finds aquatic plant extracts compliant with

OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Aquatic plant extracts from §205.601(j)

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 5 No: 6 Abstain: 3 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Humic acids

Reference: 205.601(j) As plant or soil amendments. 3) Humic acids - naturally occurring deposits, water and alkali extracts only.

Technical Report: [1996 TAP](#); [2006 TR](#)

Petition(s): N/A

Past NOSB Actions: 09/1996 meeting minutes and vote; 04/2006 sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was substantial public comment support in favor of relisting humic acids. Humic acids are in active use by the trade and continue to be considered necessary to the production of fruit and vegetables. No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds humic acids compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Humic Acids from §205.601(j)3

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 4 No: 10 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Lignin sulfonate

Reference: 205.601(j) As plant or soil amendments. (4) Lignin sulfonate —chelating agent, dust suppressant.

Technical Report: [2011 TR](#); [1995 TAP](#)

Petition(s): N/A, 2014 Petition to remove as floating agent

Past NOSB Actions: 10/1995 NOSB Minutes and vote; 04/2006 Sunset Rec; 04/2011 NOSB Rec to amend, 04/2011 NOSB Sunset Rec

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was public comment support in favor of relisting Lignin Sulfonate as a chelating agent and dust suppressant. Lignin sulfonates are in active use by the trade and continue to be considered “necessary”, both for dust suppression and as the chelating agent for many micronutrient formulations. The NOSB found the material to meet OFPA criteria and has voted for continued listing. No significant new issues were raised by the public.

Vote

Motion to remove lignin sulfonate from §205.601(j)(4) as chelating agent and dust suppressant.

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 7 No: 7 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Lignin sulfonate

Reference: 205.601(l)(1) - As floating agents in postharvest handling.

Technical Report: [2011 TR](#); [1995 TAP](#)

Petition(s): N/A, 2014 Petition to remove as floating agent

Past NOSB Actions: 10/1995 NOSB Minutes and vote; 04/2006 Sunset Rec; 04/2011 NOSB Rec to amend, 04/2011 NOSB Sunset Rec

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The NOSB completed the sunset review for lignin sulfonate. There was 100% public support in favor of removing Lignin Sulfonate for use as a floating agent from the National List. Lignin sulfonate for use as a

floating agent is no longer in use by the trade and is therefore no longer considered to be “necessary”.

Based on the Subcommittee review, the petition to remove, and public comment, the NOSB recommends removal of this material from the National List.

Vote

Motion to remove Lignin Sulfonate from section §205.601(l)(1) of the National List for use as a floating agent in postharvest handling, and to acknowledge support for the petition received on this removal.

Motion by: Zea Sonnabend

Seconded by: Colehour Bondera

Yes: 14 No: 0 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion passed. NOSB completed its sunset review and recommended removal of lignin sulfonate

Magnesium Sulfate

Reference: 205.601 (j)(5) - As a plant or soil amendment. Magnesium sulfate—allowed with a documented soil deficiency.

Technical Report: [1995 TAP](#); [2011 TR](#)

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 04/2011 sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was substantial public comment support in favor of relisting magnesium sulfate. It is in active use by the trade and continues to be considered necessary to the production of fruit and vegetables. No significant new issues were raised by the public. Based on the Subcommittee review and public comment, the NOSB finds magnesium sulfate compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Magnesium Sulfate from §205.601(j) as a plant and soil amendment

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Micronutrients

Reference: 205.601 (j)(6) - As a plant or soil amendment. Micronutrients—not to be used as a defoliant, herbicide, or desiccant. Those made from nitrates or chlorides are not allowed. Soil deficiency must be documented by testing. (i) Soluble boron products. (ii) Sulfates, carbonates, oxides, or silicates of zinc, copper, iron, manganese, molybdenum, selenium, and cobalt.

Technical Report: [2010 TR Micronutrients](#)

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was substantial public comment support in favor of relisting micronutrients. Micronutrients are in active use by the trade and they continue to be considered necessary to the production of fruit and vegetables. The Board approved an annotation change to read “deficiency must be documented;” please refer to the Formal Micronutrient Annotation Change Recommendation for additional information. No significant new issues were raised by the public.

Based on the Subcommittee review and public comment, the NOSB finds micronutrients compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Micronutrients from §205.601(j) as plant and soil amendment

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 14 No: 0 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Liquid fish products

Reference: 205.601 (j) As plant or soil amendments. (7) Liquid Fish Products – can be pH adjusted with sulfuric, citric or phosphoric acid. The amount of acid used shall not exceed the minimum needed to lower the pH to 3.5.

Technical Report: [1995 TAP](#); [2006 TR](#)

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

There was substantial public comment support in favor of relisting Liquid Fish Products. Liquid Fish Products are in active use by the trade and continue to be considered necessary to the production of fruit and vegetables. Some concerns were raised by the public about potential overharvesting of fish to make these fertilizer products. This will be discussed by the subcommittee in the future to see if a change of annotation is to be pursued. However the majority of the NOSB voted to renew this listing.

Based on the Subcommittee review and public comment, the NOSB finds liquid fish products compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Liquid Fish products from §205.601(j) as a plant and soil amendment

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Vitamin B1, C, E

Reference: 205.601 (j)(8) - As plant or soil amendment. Vitamins B1, C, and E

Technical Report(s): [2015 TR](#)

Petition(s): N/A

Past NOSB Actions: 10/1995 minutes and vote, 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 (77 FR33290)

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The NOSB completed the sunset review for Vitamins B1, C and E. There was some public comment support in favor of relisting these vitamins. Vitamins B1, C and E are in active use by the trade and continues to be considered “necessary” to the production of fruit and vegetables. No significant new issues were raised by the public.

Based on the Subcommittee review and public comment, the NOSB finds these materials compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Vitamin B1, Vitamin C, Vitamin E, from §205.601(j)(8)

Motion by: Carmela Beck

Seconded by: Harold Austin

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Ethylene gas

Reference: 205.601(k) - As plant growth regulators. Ethylene gas - for regulation of pineapple flowering.

Technical Report: [02/2000 Supplemental TAP](#); [2007 TAP](#); [2011 Supplemental TR](#)

Petition(s): N/A

Past NOSB Actions: 11/1995 NOSB recommendation; 10/2001 recommendation; 11/2005 NOSB sunset recommendation; 04/2011 NOSB sunset [recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

This material was reviewed at both the Spring and Fall NOSB meetings. Public comments were provided for both meetings in writing and oral presentation. The fall meeting also provided an opportunity for oral public testimony via two webinars provided by the NOP.

The NOSB was concerned about the lack of comments from pineapple producers for the spring meeting, so they included another request to hear from stakeholders in the proposal for the fall meeting. There was an out-pouring of both written and oral testimony presented to the full NOSB by organic pineapple producers, from Costa Rica primarily. These comments along with historic information, previous Sunset Reviews and discussions, along with open discussions at the fall meeting helped to provide the full NOSB with significant information about this material, how it is used by all size operations of pineapple producers, and the significance it plays in their crop production. Previous discussions have made it appear that this is a material primarily used only by larger size operations, the grower comments helped

to provide information showing that this material, in fact, is actually used by organic pineapple growers of all size operations.

Discussion and public testimony helped frame the importance of this material to organic pineapple production and the impact it would have on not just the growers, but also wholesalers, retailers, processors, and ultimately the organic consumers. The over-all messaging from the crop producers was that the fact is the level of organic pineapple production that currently exists would cease without this material being available for use in organic pineapple production.

There were no new issues of human health or environmental concerns that were raised that have not been appropriately and completely answered in the previous review cycles. Therefore, there is no rationale as to why this material should not continue to be allowed on the National List for use in organic crop production.

Based on the Subcommittee review and public comment, the NOSB finds ethylene gas compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Ethylene from §205.601(k)
Motion by: Harold V. Austin IV
Seconded by: Colehour Bondera
Yes: 3 No: 9 Abstain: 2 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Sodium silicate

Reference: 205.601 (l) As floating agents in postharvest handling. (2) Sodium silicate—for tree fruit and fiber processing.

Technical Report: 1995 TAP; 2006 TR

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; 10/2010 NOSB sunset recommendation

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The Subcommittee proposed to delist Sodium Silicate as a floating agent in postharvest handling for tree fruit and fiber processing primarily because there was no public comment received in favor of this

material during our Spring, 2015 meeting. Additionally it was noted that float less mechanized systems are an available alternative.

However, at the Fall, 2015 meeting the Subcommittee did receive two comments discussing Sodium Silicate. One commenter supports relisting for use as a pear float – the commenter stated that removal could prevent small businesses from converting to organic packing due to the high costs of equipment to do it without. Also an industry trade organization conducted direct outreach to suppliers of sodium silicate for pear floating agents. They state that it appears as though the material is still in use by some smaller conventional pear packing facilities in the Pacific Northwest. These facilities have switched to sodium silicate due to increased regulation on the use of Lignin Sulfonate. Removing sodium silicate at this time would eliminate the possibility of these smaller facilities, with older style packing lines, in engaging in the organic industry.

Faced with this new information the Board needed to take into consideration the potential impacts on smaller packing facilities, should both Lignin Sulfonate & Sodium Silicate be removed from the National List for use as a pear floating agent. The motion to remove lignin sulfonate was approved and the Board determined that this material could still be in use by the trade and therefore continues to be considered “necessary”.

Based on the Subcommittee review and public comment, the NOSB finds sodium silicate compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Sodium silicate from §205.601(j)

Motion by: Carmela Beck

Seconded by: Colehour Bondera

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

EPA List 4 - Inerts of Minimal Concern

Reference: 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. (1) EPA List 4 – Inerts of Minimal Concern.

Technical Report: [2015 Limited Scope TR: Nonylphenol ethoxylates \(NPEs\)](#)

Petition(s): N/A

Past NOSB Actions: 02/1999 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [04/2010 recommendation](#), [10/2010 NOSB sunset recommendation](#); [10/ 2012 NOSB recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The NOSB completed the sunset review for EPA List 4 – Inerts of Minimal Concern. This listing is out of date as discussed in the proposal from the subcommittee. An annotation change to remove the reference to EPA List 4 and replace it with the current regulation structure for inerts was considered and passed during the same meeting as this was reviewed. This listing needed to be renewed in the meantime in case the rulemaking for the annotation change takes longer than the sunset expiration date. Please see the Proposal for an annotation change for EPA List 4 inerts for more information.

Vote

Motion to remove EPA List 4 inerts from §205.601(m) based on compatibility with organic principles

Motion by: Zea Sonnabend

Seconded by: Harold Austin

Yes: 2 No: 12 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Microcrystalline cheesewax

Reference: 205.601(o) - As production aids. Microcrystalline cheesewax (CAS #'s 64742-42-3, 8009-03-08, and 8002-74-2)-for use in log grown mushroom production. Must be made without either ethylene-propylene co-polymer or synthetic colors.

Technical Report: none

Petition(s): [2007 Petition](#); [2008 Petitioner response to questions](#)

Past NOSB Actions: [2008 NOSB recommendation](#)

Recent Regulatory Background: Federal Register rule amendment published 02/14/12 ([77 FR 8089](#))

Sunset Date: 3/15/17

[Subcommittee Review](#)

NOSB Review:

The NOSB completed the sunset review for microcrystalline cheesewax. The NOSB found the material to meet OFPA criteria and has voted for continued listing. The public raised the issue that there was a better alternative available made of soy wax but it was acknowledged that this would still need to be petitioned, recommended by the NOSB, and included on the National List. Therefore this material will remain on the list for now.

Based on the Subcommittee review and public comment, the NOSB finds this material compliant with OFPA criteria, and does not recommend removal from the National List.

Vote

Motion to remove Microcrystalline cheesewax from §205.601(o)

Motion by: Colehour Bondera

Seconded by: Francis Thicke

Yes: 1 No: 13 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Ash from manure burning

Reference: 205.602(a)

Technical Report: none

Petition(s): [2014](#)

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [10/2010](#)

[NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)**NOSB Review:**

The Crops Subcommittee believes that ash from manure burning does not meet the OFPA criteria and saw no reason to remove it from its prohibited status on the National List. Both the Crops Subcommittee and the full NOSB voted to not remove ash from manure burning from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove Ash from manure burning from §205.602(a)

Motion by: Francis Thicke

Seconded by: Zea Sonnabend

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Arsenic

Reference: 205.602(b)

Technical Report: none

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The Crops Subcommittee believes that arsenic does not meet the OFPA criteria and saw no reason to remove arsenic from its prohibited status on the National List. Both the Crops Subcommittee and the full NOSB voted to not remove arsenic from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove Arsenic from §205.602(b)

Motion by: Francis Thicke

Seconded by: Zea Sonnabend

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Lead salts

Reference: 205.602(d)

Technical Report: none

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The Crops Subcommittee believes that lead salts do not meet the OFPA criteria and saw no reason to remove it from its prohibited status on the National List. Both the Crops Subcommittee and the full NOSB voted to not remove lead salts from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove lead salts from §205.602(d)

Motion by: Francis Thicke

Seconded by: Zea Sonnabend

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Potassium chloride

Reference: 205.602(e) - unless derived from a mined source and applied in a manner that minimizes chloride accumulation in the soil.

Technical Report: [1995](#)

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)**NOSB Review:**

The Crops Subcommittee found no reason to remove it from its prohibited status on the National List. Both the Crops Subcommittee and the full NOSB voted to not remove potassium chloride from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove potassium chloride from §205.602(e)

Motion by: Zea Sonnabend

Seconded by: Francis Thicke

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Sodium fluoaluminate (mined)

Reference: 205.602(f)

Technical Report: none

Petition(s): N/A

Past NOSB Actions: 1996 NOSB meeting minutes and vote; 11/2005 sunset recommendation; [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The Crops Subcommittee believes that sodium fluoaluminate does not meet the OFPA criteria and saw no reason to remove it from its prohibited status on the National List. Both the Crops Subcommittee and the full NOSB voted to not remove sodium fluoaluminate from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove sodium fluoaluminate from §205.602(f)

Motion by: Zea Sonnabend

Seconded by: Francis Thicke

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Strychnine

Reference: 205.602(h)

Technical Report: none

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The Crops Subcommittee believes that strychnine does not meet the OFPA criteria and saw no reason to remove it from its prohibited status on the National List. Both the Crops Subcommittee and the full

NOSB voted to not remove strychnine from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove strychnine from §205.602(h)

Motion by: Zea Sonnabend

Seconded by: Francis Thicke

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.

Tobacco dust (nicotine sulfate)

Reference: 205.602(i)

Technical Report: none

Petition(s): N/A

Past NOSB Actions: 04/1995 NOSB minutes and vote; 11/2005 NOSB sunset recommendation; [10/2010 NOSB sunset recommendation](#)

Recent Regulatory Background: Sunset renewal notice published 06/06/12 ([77 FR 33290](#))

Sunset Date: 6/27/17

[Subcommittee Review](#)

NOSB Review:

The NOSB completed the sunset review for tobacco dust. The Crops Subcommittee believes that this material does not meet the OFPA criteria and saw no reason to remove it from its prohibited status on the National List. Both the Crops Subcommittee and the full NOSB voted to not remove tobacco dust from §205.602, nonsynthetic substances prohibited for use in organic crop production.

Vote

Motion to remove tobacco dust (nicotine sulfate) from §205.602(i)

Motion by: Francis Thicke

Seconded by: Zea Sonnabend

Yes: 0 No: 14 Abstain: 0 Absent: 0 Recuse: 0

Outcome: Motion failed. NOSB completed its sunset review.