



Sunset 2017 Review Summary Meeting 1 - Request for Public Comment Handling Substances §205.605(b) April 2015

Introduction

As part of the [Sunset Process](#), the National Organic Program (NOP) announces substances on the National List of Allowed and Prohibited Substances (National List) that are coming up for sunset review by the National Organic Standard Board (NOSB). The following list announces substances that are on the National List for use in organic crop production that must be reviewed by the NOSB and renewed by the USDA before their sunset dates in 2017. This list provides the substance's current status on the National List, use description, references to past technical reports, past NOSB actions, and regulatory history, as applicable. If a new technical report has been requested for a substance, this is noted in this list. To see if any new technical report is available, please check for updates under the substance name in the [Petitioned Substances Database](#).

Request for Comments

While the NOSB will not complete its review and any recommendations on these substances until the fall 2015 public meeting, the NOP is requesting that the public provide comments about these substances to the NOSB as part of the spring 2015 public meeting. These comments should be provided through www.regulations.gov by April 7, 2015 as explained in the meeting notice published in the [Federal Register](#).

These comments are necessary to guide the NOSB's review of each substance against the criteria in the Organic Foods Production Act (7 U.S.C. 6518(m)) and the USDA organic regulations (7 CFR 205.600). The current substances on the National List were originally recommended by the NOSB based on evidence available to the NOSB at the time of their last review which demonstrated that the substances were found to be: (1) not harmful to human health or the environment, (2) necessary because of the unavailability of wholly nonsynthetic alternatives, and (3) consistent and compatible with organic practices.

Public comments should focus on providing new information about a substance since its last NOSB review. Such information could include research or data that may support a change in the NOSB's determination for a substance. Public comment should also address the continuing need for a substance or whether the substance is no longer needed or in demand.

Guidance on Submitting Your Comments

Comments should clearly indicate your position on the allowance or prohibition of substances on the list and explain the reasons for your position. You should include relevant information and data to support your position (e.g., scientific, environmental, manufacturing, industry impact information, etc.).

For Comments That Support Substances Under Review:

If you provide comments in support of an allowance of a substance on the National List, you should provide information demonstrating that the substance is:

- (1) not harmful to human health or the environment;
- (2) necessary to the production of the agricultural products because of the unavailability of wholly nonsynthetic substitute products; and



(3) consistent with organic crop production.

For Comments That Do Not Support Substances Under Review:

If you provide comments that do not support a substance on the National List, you should provide reasons why the use of the substance should no longer be allowed in organic production or handling. Specifically, comments that support the removal of a substance from the National List should provide new information since its last NOSB review to demonstrate that the substance is:

- (1) harmful to human health or the environment;
- (2) unnecessary because of the availability of alternatives; and
- (3) inconsistent with crop production.

For Comments Addressing the Availability of Alternatives:

Comments may present information about the viability of alternatives for a substance under sunset review. Viable alternatives include, but are not limited to:

- Alternative management practices that would eliminate the need for the specific substance;
- Other currently exempted substances that are on the National List, which could eliminate the need for this specific substance; and
- Other organic or nonorganic agricultural substances.

Your comments should address whether any alternatives have a function and effect equivalent to or better than the allowed substance, and whether you want the substance to be allowed or removed from the National List. Assertions about alternative substances, except for those alternatives that already appear on the National List, should, if possible, include the name and address of the manufacturer of the alternative. Further, your comments should include a copy or the specific source of any supportive literature, which could include product or practice descriptions; performance and test data; reference standards; names and addresses of producers or handlers who have used the alternative under similar conditions and the date of use; and an itemized comparison of the function and effect of the proposed alternative(s) with substance under review. The following table can help you describe recommended alternatives in place of a current substance that you do not want to be continued.

For Comments on Nonorganic Agricultural Substances at Section 205.606.

For nonorganic agricultural substances on section 205.606, the NOSB Handling Subcommittee requests current industry information regarding availability of and history of unavailability of an organic form of the substance in the appropriate form, quality, or quantity of the substance. The NOSB Handling Subcommittee would like to know if there is a change in supply of organic forms of the substance or demand for the substance (i.e. is an allowance for the nonorganic form still needed), as well as any new information about alternative substances that the NOSB did not previously consider.

Written public comments will be accepted through April 7, 2015 via www.regulations.gov. Comments received after that date may not be reviewed by the NOSB before the meeting.



**Sunset 2017 Review Summary
Meeting 1 - Request for Public Comment
Handling Substances §205.605(b)
April 2015**

Reference: 7 CFR 205.605 *Nonagricultural* (Nonorganic) substances allowed as ingredients in or on processed products labeled as “organic” or “made with organic (specified ingredients or food group(s)).”

§205.605(b) Synthetics allowed:

[Acidified sodium chlorite](#)

[Alginates](#)

[Ammonium bicarbonate](#)

[Ammonium carbonate](#)

[Ascorbic acid](#)

[Calcium citrate](#)

[Calcium hydroxide](#)

[Calcium phosphates: monobasic, dibasic, tribasic](#)

[Carbon dioxide](#)

[Chlorine Materials: calcium hypochlorite, chlorine dioxide, sodium hypochlorite](#)

[Ethylene](#)

[Ferrous sulfate](#)

[Glycerides: mono and di](#)

[Glycerin](#)

[Hydrogen peroxide](#)

[Magnesium carbonate](#)

[Magnesium chloride](#)

[Magnesium stearate](#)

[Nutrient vitamins and minerals](#)

[Ozone](#)

[Phosphoric acid](#)

[Potassium acid tartrate](#)

[Potassium carbonate](#)

[Potassium citrate](#)

[Potassium phosphate](#)

[Sodium citrate](#)

[Sodium hydroxide](#)

[Sodium phosphates](#)

[Sulfur dioxide](#)

[Tocopherols](#)

[Xanthan gum](#)



Acidified sodium chlorite

Reference: 205.605(b) - Secondary direct antimicrobial food treatment and indirect food contact surface sanitizing. Acidified with citric acid only.

Technical Report: [2008 TAP](#)

Petition(s): [2006 Sodium Chlorite, Acidified](#)

Past NOSB Actions: [2009 NOSB recommendation](#)

Recent Regulatory Background: Added to NL effective 03/15/2012 ([77 FR 8089](#))

Sunset Date: 03/15/17

Additional information requested by NOSB

Is the substance essential for organic food production? Since the material was last reviewed, have additional commercially available alternatives emerged? The Handling Subcommittee encourages current users of acidified sodium chlorite to provide detailed comments describing the situations in which it is the most appropriate or effective antimicrobial for a given application.

Alginates

Reference: 205.605(b) Synthetics allowed

Technical Report: [1995 TAP](#)

Petition(s): [1995 Alginates](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

Please bring forth any information regarding the effect of Alginic Acid and/or Alginates on human digestion.

Ammonium bicarbonate

Reference: 205.605(b) - for use only as a leavening agent

Technical Report: [1995 TAP](#)

Petition(s): N/A

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



[recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Ammonium carbonate

Reference: 205.605(b) –for use only as a leavening agent

Technical Report: [1995 TAP](#)

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Ascorbic acid

Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Calcium citrate



Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Calcium hydroxide

Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Calcium phosphates (monobasic, dibasic, and tribasic)

Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): [N/A](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB



Have there been any changes in the sources of the raw materials from which the calcium or the phosphate are derived from? Any changes in the manufacturing process?

Carbon dioxide

Reference: 205.605(b)

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

Petition(s): [2007 Carbon Dioxide](#)

Past NOSB Actions: [10/1995 NOSB minutes and vote](#); [2007 NOSB Committee recommendation](#); [11/2005 sunset recommendation](#); [10/2010 sunset recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Chlorine materials

Reference: 205.605(b) Chlorine materials- —disinfecting and sanitizing food contact surfaces, *Except*, That, residual chlorine levels in the water shall not exceed the maximum residual disinfectant limit under the Safe Drinking Water Act (Calcium hypochlorite; Chlorine dioxide; and Sodium hypochlorite).

Technical Report: [2006 TR - Handling](#)

Petition(s): N/A

Past NOSB Actions: [10/1995 NOSB minutes and vote](#); [04/2006 sunset recommendation](#); [10/2010 sunset recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

Is the substance essential for organic food production? Since the material was last reviewed, have additional commercially available alternatives emerged? The Handling Subcommittee encourages current users of chlorine materials to provide detailed comments describing the situations in which they are the most appropriate or effective antimicrobial for a given application.

Ethylene



Reference: 205.605(b) allowed for postharvest ripening of tropical fruit and degreening of citrus.

Technical Report: [1995 TAP](#); [1999 TAP - Processing](#)

Petition(s): 1995 N/A, [2008 Ethylene \(for use with pears\)](#)

Past NOSB Actions: [10/1995 NOSB minutes and vote](#); [10/1999 NOSB minutes and vote \(add tropical fruit and citrus\)](#); [11/2005 sunset recommendation](#); [11/2008 recommendation for pears](#); [10/2010 sunset recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

The subcommittee is considering editing the annotation and removing its allowed use for the de-greening of citrus. If you use this material for the de-greening of citrus please let us know why you need to use it, and what the impact on your operation would be if it was removed from the List.

Ferrous sulfate

Reference: 205.605(b) - for iron enrichment or fortification of foods when required by regulation or recommended (independent organization).

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

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Glycerides (mono and di)

Reference: 205.605(b) for use only in drum drying of food.

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

Petition(s): [N/A](#)

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



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

Sunset Date: 06/27/2017

Additional information requested by NOSB

1. The subcommittee would like to better understand the extent of use of glycerides (mon- and di-) in drum drying. Are glycerides essential to organic food production? Describe the effects on your operation if glycerides were removed from the National List
2. There appear to be many alternatives to use of glycerides for drum drying of foods, such as spray drying, freeze drying, fluidized bed dryers, air lift dryers, etc. Freeze drying is said to be an acceptable alternative to drum drying. Which of these alternatives have you found to be effective in your business?

Glycerin

Reference: 205.605(b) - produced by hydrolysis of fats and oils.

Technical Report: [1995 TAP](#); [2013 TR](#)

Petition(s): 1995 N/A, [Glycerin \(2012 Petition to remove\)](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

The Handling subcommittee requests public comment regarding the current use and essentiality of glycerin as a filter aid.

Hydrogen peroxide

Reference: 205.605(b)

Technical Report: N/A for handling use

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB



Is hydrogen peroxide essential for organic food production? Since the material was last reviewed, have additional commercially available alternatives emerged? The Handling Subcommittee encourages current users of hydrogen peroxide to provide detailed comments describing the situations in which it is the most effective antimicrobial for a given application

Magnesium carbonate

Reference: 205.605 (b) — for use only in agricultural products labeled “made with organic (specified ingredients or food group(s)),” prohibited in agricultural products labeled “organic”.

Technical Report: [1996 TAP](#)

Petition(s): [Magnesium Carbonate \(2005\)](#)

Past NOSB Actions: [09/1996 NOSB minutes and vote](#); [11/2005 sunset recommendation](#); [10/2010 sunset recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

The subcommittee is considering removing this material from the National List. If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List.

Magnesium chloride

Reference: 205.605(b) – derived from sea water.

Technical Report: [1995 TAP](#)

Petition(s): N/A

Past NOSB Actions: [10/1995 NOSB minutes and vote](#); [10/1999 NOSB minutes and vote](#); [11/2005 sunset recommendation](#); [10/2010 sunset recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

1. If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List.
2. If this material continues to be allowed should it be reclassified as Non-synthetic because it is derived from seawater by brine drying or should the annotation be changed?



3. If this material continues to be allowed should its uses be limited to production of tofu?
4. Is Nigari an FDA allowed food ingredient?

Magnesium stearate

Reference: 205.605(b) - for use only in agricultural products labeled “made with organic (specified ingredients or food group(s)),” prohibited in agricultural products labeled “organic”.

Technical Report: [1995 TAP](#)

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

1. The CCFA in 2010 recommended that magnesium stearate be deleted from Codex. Presently magnesium stearate is only allowed in the “made with organic” category. The Handling subcommittee may be recommending that magnesium stearate be removed from the National List. If magnesium stearate was removed from the National List what impact would this have on your operation?
2. Since last review are there alternatives to the use of this material? If so which ones are most effective in your operation.
3. Since the last review what health impacts have been clearly associated with magnesium stearate?

Nutrient vitamins and minerals

Reference: 205.605(b) Nutrient vitamins and minerals, in accordance with 21 CFR 104.20, Nutritional Quality Guidelines For Foods.

Technical Report: [1995 TAP - Minerals](#); [1995 TAP - Vitamins](#); 2015 TRs in development

Petition(s): N/A

Past NOSB Actions: [10/1995 NOSB minutes and vote](#); [11/2005 sunset recommendation](#); [03/2011 Handling Subcommittee Proposal](#); [04/2011 sunset recommendation](#)

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

Sunset Date: 10/21/2017

Additional information requested by NOSB



Since the technical review document was not back in time for review, the Handling subcommittee urges input regarding ancillary substances used with these materials.

Ozone

Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

Is ozone essential for organic food production? Since the material was last reviewed, have additional commercially available alternatives emerged? The Handling Subcommittee encourages current users of ozone to provide detailed comments describing the situations in which it is the most effective antimicrobial for a given application.

Phosphoric acid

Reference: 205.605(b) - cleaning of food-contact surfaces and equipment only

Technical Report: [2003 TAP](#)

Petition(s):N/A

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

Is the substance essential for organic food production? Since the material was last reviewed, have additional commercially available alternatives emerged? The Handling Subcommittee encourages current users of phosphoric acid to provide detailed comments describing the situations in which it is the most effective cleaner for a given application

Potassium acid tartrate



Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): [N/A](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

1. Is clarification needed as to precisely which material is allowed?
2. If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List.

Potassium carbonate

Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): [N/A](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List.

Potassium citrate

Reference: 205.605(b)

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

Petition(s): N/A

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

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

Sunset Date: 06/27/2017



Additional information requested by NOSB

NONE

Potassium phosphate

Reference: 205.605(b) - for use only in agricultural products labeled “made with organic (specific ingredients or food group(s)),” prohibited in agricultural products labeled “organic”.

Technical Report: [1995 TAP](#)

Petition(s): [N/A](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List

Sodium citrate

Reference: 205.605(b)

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

Petition(s): [N/A](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

The subcommittee is considering removing this material from the National List based on availability of alternatives that include citric acid and potassium citrate. If you use this material please let us know if an alternative material would be sufficient in your operation and if Sodium Citrate is removed from the National List please let us know if this would have an impact on your operation:



Sodium hydroxide

Reference: 205.605(b) - prohibited for use in lye peeling of fruits and vegetables.

Technical Report: [1995 TAP](#)

Petition(s): [N/A](#)

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

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

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Additional information requested by NOSB

If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List.

Sodium phosphate

Reference: 205.605(b) - for use only in dairy foods.

Technical Report: [2001 TAP](#)

Petition(s): 1995 N/A, [2001 Sodium Phosphate](#)

Past NOSB Actions: [10/1995 NOSB minutes and vote](#); [10/2001 NOSB minutes and vote](#); [11/2005 sunset recommendation](#); [10/2010 sunset recommendation](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

If you use this material please let us know what you use it for and why, and what would be the impact on your operation if it was removed from the List.

Sulfur dioxide

Reference: 205.605(b) for use only in wine labeled “made with organic grapes,” Provided, That, total sulfite concentration does not exceed 100 ppm.

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

Petition(s): 1995 N/A; [2010 Sulfur Dioxide](#)



Past NOSB Actions: [04/1995 NOSB minutes and vote](#); [11/2005 sunset recommendation](#); [10/2010 sunset recommendation](#); [12/2011 petition review](#)

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

NONE

Tocopherols

Reference: 205.605(b) derived from vegetable oil when rosemary extracts are not a suitable alternative

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

Petition(s): [N/A](#)

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

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

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Additional information requested by NOSB

The following table shows ancillary substances used in common tocopherol formulations. Please provide information as to whether these ancillary substances or others are also used in organic tocopherol formulations.

Table 1. Commercially Available Tocopherols Products Used as Antioxidants in Foods

| Manufacturer | Product Name | Formulation | Ancillary Substance(s) | Source(s) |
|---|--------------|-------------|------------------------|---|
| Advanced Organic Technologies (Buenos Aires, Argentina) | Tocomix™ | Liquid | Sunflower oil | AOM, 2014 |
| Archer Daniels Midland Company (Decatur, IL) | Decanox™ | Liquid | Unknown | ADM, 2014 |
| | | Powder | Unknown | |
| BASF (Germany) | Covi-ox® | Liquid | Soybean oil | Brenntag Specialties, Inc., date unknown; |
| | | Powder | Gum acacia | BASF, 2013 |

| | | | | |
|---|----------------------------------|---------|--|------------------------------------|
| BTSA (Madrid, Spain) | Tocobiol® | Liquid | Sterols, squalene, monodiglycerides*, soybean or sunflower oil | BTSA, 2014a; BTSA, 2013 |
| | | Powder | Calcium carbonate | |
| | Nutrabiol® T | Liquid | Soybean or sunflower oil | BTSA, 2014b; BTSA, 2012 |
| | | Powder | Silica | |
| DuPont Danisco (global) | Guardian® tocopherol extract | Unknown | Unknown | DuPont Nutrition and Health, 2014a |
| Kemin Industries, Inc. (Des Moines, IA) | Fortium® mixed tocopherols | Liquid | Sunflower oil | Kemin, 2014a; 2014b |
| | | Powder | Rice maltodextrin | |
| Nutralliance (supplier) (Yorba Linda, CA) | Sunvitol™ MT | Powder | Unknown | Nutralliance, 2014 |
| Organic Technologies (Coshocton, OH) | Natural mixed tocopherols | Liquid | Organic sunflower oil | Organic Technologies, 2013 |
| | | Powder | Tapioca starch | |
| Sigma-Aldrich (St. Louis, MO) | Mixed tocopherols | Liquid | Unknown | Sigma-Aldrich Co. LLC, 2014 |
| The Scoular Company (Minneapolis, MN) | Natural source mixed tocopherols | Liquid | Unknown | The Scoular Company, 2014 |
| | | Powder | Unknown | |
| Vitablend (Wolvega, The Netherlands) | Tocoblend® | Liquid | Unknown | Vitablend, 2014 |
| | | Powder | Unknown | |
| VitaeNaturals (Toledo, Spain) | Vitapherole® T | Liquid | Unknown | Vitae Caps S.A., 2012 |
| | | Powder | Unknown | |
| Wilmar Spring Fruit Nutrition Products Co. (Jiangsu, China) | Natural mixed tocopherols | Liquid | Soybean or sunflower oil | Wilmar International Ltd., 2014 |
| | | Powder | Unknown | |
| ZMC-USA (The | CaroleE™ ET and PT | Liquid | Unknown | ZMC-USA, date |



| | | | | |
|----------------|--|--------|---------|---------|
| Woodlands, TX) | | Powder | Unknown | unknown |
|----------------|--|--------|---------|---------|

* Piñol del Olmo (date unknown) reports that sterols, squalene, and monodiglycerides are naturally present in Tocobiol® from the source vegetable oil

Xanthan gum

Reference: 205.605(b)

Technical Report: [1995 TAP](#)

Petition(s): [N/A](#)

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

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

Sunset Date: 06/27/2017

Additional information requested by NOSB

Are there any ancillary substances used in xanthan gum such as carriers or solvent remaining in the final product?