

Comparison Aquaculture – Agriculture Organic Standards

September 21st 2011

The draft of the Organic Aquaculture Standards that is currently submitted for the approval of the CGSB Committee on Organic Aquaculture (in the blue column), as compared with the National Standard of Canada - Organic Production Systems – CAN/CGSB-32.310 and Permitted Substances Lists CAN/CGSB-32.311 (in the green column). Please note that the Aquaculture standard is fully listed, the Agriculture standard sections corresponding to the content of the Aquaculture standard being reported “en vis-à-vis” in the green column.

Section 7-8-9-B

Note: Pest management, Processing & Handling, PSL and Requirements for adding substances are quite similar. Agri PSL is valid for Aqua PSL.

AQUACULTURE SECTION 7-8-9-B

7. Pest Management in Facilities (e.g. feed storage facilities, warehouse, buildings housing production equipment, processing facilities)

- 7.1 Good production practices shall be adopted to prevent pests. Pest management practices shall first involve the removal of pest habitat and food; second, the prevention of access and environmental management (light, temperature and atmosphere) to prevent pest intrusion and reproduction; and third, mechanical and physical methods (traps), lures and repellents listed in table 6.7 of CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*.
- 7.2 If the practices given in par. 7.1 are ineffective, the operator may use pest control substances listed in table 6.7 of CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*. The operator shall record the use and disposition of all such substances.
- 7.3 If the practices given in par. 7.1 and 7.2 are ineffective, the operator may use pest control substances not listed in table 6.7 of CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*. In situations in which pest control substances not listed in table 6.7 of CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*, are used indoors, the operator shall ensure that no organic products

AGRICULTURE SECTION 8-9-10

8.4 Pest Management

- 8.4.1 Good manufacturing practices shall be adopted to prevent pests. Pest management practices shall first involve the removal of pest habitat and food; second, the prevention of access and environmental management (light, temperature and atmosphere) to prevent pest intrusion and reproduction; and third, mechanical and physical methods (traps), lures and repellents listed in CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*.
- 8.4.2 If the practices given in par. 8.4.1 are ineffective, the operator may use pest control substances listed in CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*. The operator shall record the use and disposition of all such substances.
- 8.4.3 If the practices given in par. 8.4.1 and 8.4.2 are ineffective, the operator may use pest control substances not listed in CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*. In situations in which pest control substances not listed in CAN/CGSB-32.311, *Organic Production Systems – Permitted Substances Lists*, are used indoors, the operator shall ensure that no organic products or packaging materials for those products are present. Documentation shall be maintained showing the movement of organic

<p>or packaging materials for those products are present. Documentation shall be maintained showing the movement of organic products in order to avoid contact with these substances and to record the use and disposition of all such substances.</p> <p>7.4 Organic products shall be exposed only to pesticides or pest control substances listed in table 6.7 of CAN/CGSB-32.311, <i>Organic Production Systems – Permitted Substances Lists</i>, during any stage of production, transit, storage or border crossing.</p>	<p>products in order to avoid contact with these substances and to record the use and disposition of all such substances.</p> <p>8.4.4 Organic products shall be exposed only to pesticides or pest control substances listed in CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, during any stage of production, transit, storage or border crossing.</p>
<p>8 Processing, Handling, Transportation and Storage of Organic Products</p> <p>8.1 Processing, handling, transportation and storage of organic products are subject to the requirements of section 8 of CAN/CGSB-32.310, <i>Organic Production Systems — General Principles and Management Standards</i> and CAN/CGSB 32.311, <i>Organic Production Systems — Permitted Substances Lists</i>.</p>	<p>8. PREPARATION AND HANDLING OF ORGANIC PRODUCTS - integral version</p>
<p>9 PERMITTED SUBSTANCES LISTS FOR AQUACULTURE SEAWEED AND AQUATIC PLANT PRODUCTION</p> <p>9.1 Classification — Crop production substances are classified according to the following uses and applications:</p> <ul style="list-style-type: none"> a. Amendments and Crop Nutrition b. Crop Production Aids and Materials. <p>9.2 Amendments and Crop Nutrition Substances permitted in par. 4.2 of CAN/CGSB-32.311, <i>Organic Productions Systems — Permitted Substances Lists</i> are permitted in Aquaculture Seaweed and Plant Production provided that the origin and use are consistent with the annotation for that substance.</p>	<p>32-311 Permitted Substances Lists</p> <p>Integral version of permitted substances in 32.311 plus specific substances for aquaculture</p>

Unless otherwise specified, the soil amendments and crop nutrients listed below shall not contain substances prohibited by par. 1.4.1, or not permitted by this standard.

REQUIREMENTS FOR ADDING OR AMENDING SUBSTANCES IN THE PERMITTED SUBSTANCES LISTS

Note 1: *The criteria in this section do not apply to packaging materials, equipment surfaces, or other non-reactive substances. In creating and maintaining these lists, generic substances are not to be confused with brand name substances which may have added formulants, surfactants or wetting agents, the impact of which should be evaluated under a different process on a product-by-product basis.*

Note 2: *Substances permitted in par. 4.2 and 4.3 of CAN/CGSB-32.311, Organic Production Systems — Permitted Substances Lists, may be permitted in Aquaculture Plant Production. Substances permitted in par. 6.3 to 6.6 of CAN/CGSB-32.311, Organic Production Systems — Permitted Substances Lists may be permitted in the processing of Aquaculture Products.*

B1. Substance List Review Procedures

- B1.1 Substances to be added to or deleted from the Permitted Substances Lists, shall be evaluated for compliance with the criteria outlined in par. 2 to 5 inclusive.
- B1.2 The system of review criteria detailed in this standard shall be the primary determinant for accepting or rejecting the addition of a substance to the Permitted Substances Lists
- B1.3 In evaluating substances for inclusion in the Permitted Substances Lists, all stakeholders shall have an opportunity to be involved.

10. REQUIREMENTS FOR ADDING OR AMENDING SUBSTANCES IN CAN/CGSB-32.311, ORGANIC PRODUCTION SYSTEMS — PERMITTED SUBSTANCES LISTS

Note: *The criteria in this section do not apply to packaging materials, equipment surfaces, or other non-reactive substances. In creating and maintaining these lists, generic substances are not to be confused with brand name substances which may have added formulants, surfactants or wetting agents, the impact of which should be evaluated under a different process on a product-by-product basis.*

10.1 Substance List Review Procedures

10.1.1 Substances to be added to or deleted from CAN/CGSB-32.311, *Organic Production Systems — Permitted Substances Lists*, shall be evaluated for compliance with the criteria outlined in par. 10.2 to 10.5 inclusive.

10.1.2 The system of review criteria detailed in this standard shall be the primary determinant for accepting or rejecting the addition of a substance to CAN/CGSB-32.311, *Organic Production Systems — Permitted Substances Lists*.

10.1.3 In evaluating substances for inclusion in CAN/CGSB-32.311, *Organic Production Systems — Permitted Substance Lists*, all stakeholders shall have an opportunity to be involved.

B2. Permitted Substance Criteria

B2.1 Substances included in the lists, with exceptions as noted, shall be consistent with:

- a. the general principles of organic production as set out in this introduction of this standard.
 - i. Protect the environment, minimize benthic degradation and erosion, water degradation, decrease pollution, optimize biological productivity and promote a sound state of health.
 - ii. Maintain long-term biological stability by optimizing conditions for biological diversity.
 - iii. Recycle materials and resources to the greatest extent possible within the enterprise.
 - iv. Provide attentive care that promotes the health and meets the behavioural needs of aquaculture animal.
 - v. Prepare organic products, emphasizing careful processing, and handling methods in order to maintain the organic integrity and vital qualities of the products at all stages of production.
- b. the prohibitions set out in par. 1.4.1 of this standard.

B2.2 Each substance shall be reviewed concerning its necessity, origin and mode of production, and the impacts of its production and envisioned use. These criteria are intended to be evaluated as a whole in order to protect the integrity of organic production. Each review shall include a detailed description and all information that demonstrates conformance to par. 3, 4 and 5. All available alternatives, including substances and practices that may currently be in use in other production systems, must

10.2 Permitted Substance Criteria

10.2.1 Substances included in the lists, with exceptions as noted, shall be consistent with

- a. the general principles of organic production as set out in this standard:
 - i. Protect the environment, minimize soil degradation and erosion, decrease pollution, optimize biological productivity and promote a sound state of health.
 - ii. Maintain long-term soil fertility by optimizing conditions for biological activity within the soil.
 - iii. Maintain biological diversity within the system.
 - iv. Recycle materials and resources to the greatest extent possible within the enterprise.
 - v. Provide attentive care that promotes the health and meets the behavioural needs of livestock.
 - vi. Prepare organic products, emphasizing careful processing, and handling methods in order to maintain the organic integrity and vital qualities of products at all stages of production.
 - vii. Rely on renewable resources in locally organized agricultural systems.
- b. the prohibitions set out in par. 1.4.1 of this standard.

10.2.2 Each substance shall be reviewed concerning its necessity, origin and mode of production, and the impacts of its production and envisioned use. These criteria are intended to be evaluated as a whole in order to protect the integrity of organic production. Each review shall include a detailed description and all information that demonstrates conformance to par. 10.3, 10.4 and 10.5. All available alternatives, including substances and practices that may

<p>be included in the evaluation.</p> <p>B2.3 After a decision on inclusion of a substance in the Permitted Substances Lists has been made, any conditions governing its origin and usage shall be specified according to par. 6.</p> <p>B3. Necessity of a Substance</p> <p>B3.1 <i>Amendments and Crop Nutrition</i> — Substances used as amendments or for crop nutrition and listed in par 9.2 shall be necessary to fulfil specific requirements of crops that cannot be satisfied by the requirements and practices of this standard.</p> <p>B3.2 <i>Crop Production Aids and Materials</i> — Substances used for the management of diseases, insects, weeds and other pests of seaweeds and plants and listed par 9.3, shall be necessary for that purpose and shall be included when no other adequate biological, physical or plant breeding alternatives or effective management practices are available.</p> <p>B3.3 <i>Aquaculture Animal Production Substances</i></p> <p>B3.3.1 Substances used as aquaculture animal feed additives and supplements and listed in par. 10.2, shall be</p> <ul style="list-style-type: none"> a. necessary to correct documented essential nutrient deficiencies in the feed ration, given that other biological, cultural or physical treatments are not available; or a. necessary for ensuring and preserving product quality, given that other biological, cultural or physical treatments are not available. <p>B3.3.2 Substances used as aquaculture animal health care products and production aids and listed in par. 10.3, shall be necessary to</p>	<p>currently be in use in other production systems, must be included in the evaluation.</p> <p>10.2.3 After a decision on inclusion of a substance in CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, has been made, any conditions governing its origin and usage shall be specified according to par. 10.6.</p> <p>10.3 Necessity of a Substance</p> <p>10.3.1 <i>Soil Amendments</i> — Substances used on soils and plants as amendments and listed in par. 4.2 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, shall be necessary for obtaining or maintaining soil fertility or to fulfil specific requirements of crops, or specific soil conditioning and rotational purposes that cannot be satisfied by the requirements and practices of this standard.</p> <p>10.3.2 <i>Crop Production Aids and Materials</i> — Substances used for the management of diseases, insects, weeds and other pests of plants and listed in par. 4.3 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, shall be necessary for that purpose and shall be included when no other adequate biological, physical or plant breeding alternatives or effective management practices are available.</p> <p>10.3.3 <i>Livestock Production Substances</i></p> <p>10.3.3.1 Substances used as livestock feed additives and supplements and listed in par. 5.2 of CAN/CGSB-32.311, <i>Organic Production System — Permitted Substances Lists</i>, shall be</p> <ul style="list-style-type: none"> a. necessary to correct documented essential nutrient deficiencies in the forage or feed ration, given that other biological, cultural or physical treatments are not available; or b. necessary for ensuring and preserving product quality, given that other biological, cultural or physical treatments are not available. <p>10.3.3.2 Substances used as livestock health care products and production aids and listed in par. 5.3 of CAN/CGSB-32.311, <i>Organic Production Systems —</i></p>
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prevent or treat aquaculture animal health problems provided that other organic treatments are not available.

B3.4

Food Ingredients and Processing Aids — In the absence of other available technology or substances that satisfy this standard, substances added to, or used in, the processing, handling and storage of organic food products and listed in this standard shall be

- a. necessary to correct documented essential nutrient deficiencies of the product (i.e. vitamins and minerals); or when required by regulations; or
- b. essential for ensuring the safety of the product; or
- c. used only when it is not feasible/practical to produce or store such products without having recourse to such ingredients and processing aids; or
- d. necessary to achieve a technological effect during processing (e.g. filtration) or an organoleptic effect in the final product (e.g. colouring and flavouring) while respecting the principle in 2.1 a.v.

B3.5

Cleaning, Disinfection and Pest Control Substances — Substances used for cleaning and disinfecting production and processing equipment and facilities and for emergency pest control in such facilities that are listed in par. 11 and 12, shall be necessary and appropriate for the intended use.

B4. Origin and Mode of Production of a Substance

B4.1

Amendments, Crop Nutrition and Crop Production Aids — **Substances used in crop production (par. 9.2 and 9.3), shall be** of seaweed, plant, animal, microbial or mineral origin and may undergo the following processes during production:

Permitted Substances Lists, shall be necessary to prevent or treat livestock health problems provided that other organic treatments are not available.

10.3.4 **Food Ingredients and Processing Aids** — In the absence of other available technology or substances that satisfy this standard, substances added to, or used in, the preparation, handling and storage of organic food products and listed in par. 6.3 to 6.6 of CAN/CGSB-32.311, *Organic Production Systems* — *Permitted Substances Lists*, shall be

- a. necessary to correct documented essential nutrient deficiencies of the product (i.e. vitamins and minerals); or when required by regulations; or
- b. essential for ensuring the safety of the product; or
- c. used only when it is not feasible/practical to produce or store such products without having recourse to such ingredients and processing aids; or
- d. necessary to achieve a technological effect during processing (e.g. filtration) or an organoleptic effect in the final product (e.g. colouring and flavouring) while respecting the principle in par. 10.2.1 a. vi.

10.3.5 **Sanitation and Pest Control Substances** — Substances used for sanitizing production and processing equipment and facilities and for emergency pest control in such facilities that are listed in par. 6.7, 7.3 and 7.4 of CAN/CGSB-32.311, *Organic Production Systems* — *Permitted Substances Lists*, shall be necessary and appropriate for the intended use.

10.4 Origin and Mode of Production of a Substance

10.4.1 **Soil Amendments and Crop Production Aids** — Substances used in soil conditioning and crop production (par. 4.2 to 4.3 of CAN/CGSB-32.311, *Organic Production Systems* — *Permitted Substances Lists*) shall be of plant, animal, microbial or mineral origin and may undergo the following processes during production:

<p>a. physical (e.g. mechanical or thermal)</p> <p>b. enzymatic</p> <p>c. microbial (e.g. composting, fermentation or digestion).</p> <p>B4.1.1 Substances of seaweed, plant and animal origin shall be derived from crops, livestock and aquaculture animals produced in accordance with this standard or CAN/CGSB -32.310, <i>Organic Productions Systems — General Principles and Management Standards</i> unless such substances are not commercially available.</p> <p><i>Exceptions:</i> Substances produced by chemical processes or processes that chemically alter substances of seaweed, plant, animal, microbial or mineral origin (i.e. synthetic compounds) may be considered for inclusion in par. 9.2 or 9.3 if all of the following conditions are met:</p> <p>a. They meet the criteria for necessity in par. 3 and have an impact on the considerations in par. 5.</p> <p>b. Non-synthetic forms of these substances are not available in sufficient quality or quantity.</p> <p>c. They are annotated and reviewed as required by par. 6 and 7.</p> <p>B4.2 <i>Aquaculture Animal Production Substances</i></p> <p>B4.2.1 Substances of seaweed and plant origin used as or added to aquaculture animal feed (par. 10.2 of this standard) shall be obtained from organic sources in accordance with this standard or from sources occurring in nature such as for marine products. Substances of mineral origin shall only be used if they are of natural origin.</p> <p><i>Exceptions:</i> Synthetic substances may be included if they meet all of the following conditions:</p>	<p>a. Physical (e.g. mechanical or thermal)</p> <p>b. Enzymatic</p> <p>c. Microbial (e.g. composting, fermentation or digestion).</p> <p>10.4.1.1 Substances of plant and animal origin shall be derived from crops and livestock produced in accordance with this standard unless such substances are not commercially available.</p> <p><i>Exceptions:</i> Substances produced by chemical processes or processes that chemically alter substances of plant, animal, microbial or mineral origin (i.e. synthetic compounds) may be considered for inclusion in par. 4.2 to 4.3 if all of the following conditions are met:</p> <p>a. They meet the criteria for necessity in par. 10.3 and take into consideration the impacts described in par. 10.5.</p> <p>b. Non-synthetic forms of these substances are not available in sufficient quality or quantity.</p> <p>c. They are annotated and reviewed as required by par. 10.6 and 10.7.</p> <p>10.4.2 <i>Livestock Production Substances</i></p> <p>10.4.2.1 Substances of plant origin used as or added to livestock feed (par. 5.2 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>) shall be obtained from organic sources in accordance with this standard or from sources occurring in nature such as for marine products. Substances of mineral origin shall only be used if they are of natural origin.</p> <p><i>Exceptions:</i> Synthetic substances may be included if they meet all of the following conditions:</p>
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	<ul style="list-style-type: none"> a. They meet the criteria for necessity in par. 3 and have an impact on the considerations in par. 5. b. Non-synthetic forms of these substances are not available in sufficient quality or quantity. c. They are annotated and reviewed as required by par. 6 and 7.
<p>B4.2.2 Substances used for aquaculture animal health care and production aids (par. 10.3 of this standard) shall be of organic or non-synthetic origin whenever possible. Synthetic substances may be included subject to the annotation and review requirements in par. 6 and 7.</p>	<ul style="list-style-type: none"> a. They meet the criteria for necessity in par. 10.3 and take into consideration the impacts described in par. 10.5. b. Non-synthetic forms of these substances are not available in sufficient quality or quantity. c. They are annotated and reviewed as required by par. 10.6 and 10.7. <p>10.4.2.2 Substances used for livestock health care and production aids (par. 5.3 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>) shall be of organic or non-synthetic origin whenever possible. Synthetic substances may be included subject to the annotation and review requirements in par. 10.6 and 10.7.</p>
<p>B4.3 Food Ingredients and Processing Aids — Substances used as food ingredients or processing aids (as listed in par. 6.3 to 6.6 of CAN/CGSB-32.311, <i>Organic Productions Systems — Permitted Substances Lists</i>), shall be found in nature and may have undergone the following processes during production:</p> <ul style="list-style-type: none"> a. mechanical/physical (e.g. extraction, precipitation) b. enzymatic c. microbial (e.g. fermentation). 	<p>10.4.3 Food Ingredients and Processing Aids — Substances used as food ingredients or processing aids (as listed in par. 6.3 to 6.6 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>) shall be found in nature and may have undergone the following processes during production:</p> <ul style="list-style-type: none"> a. Mechanical/physical (e.g. extraction, precipitation) b. Enzymatic c. Microbial (e.g. fermentation).
<p>B4.3.1 Substances of plant and animal origin shall be derived from crops and livestock produced in accordance with CAN/CBSG 32.310 and CAN/CGSB 32.311 and seaweeds, aquatic plants and aquaculture animals produced in accordance with this standard. Substances of microbial origin shall be obtained using organic substrate.</p> <p><i>Exceptions:</i> Substances that are not from organic sources or that have been chemically synthesized may be considered for inclusion under the following conditions:</p> <ul style="list-style-type: none"> a. They meet the criteria for necessity in par 3 and take into consideration the impacts described in par. 5. 	<p>10.4.3.1 Substances of plant and animal origin shall be derived from crops and livestock produced in accordance with this standard. Substances of microbial origin shall be obtained using organic substrate.</p> <p><i>Exceptions:</i> Substances that are not from organic sources or that have been chemically synthesized may be considered for inclusion under the following conditions:</p> <ul style="list-style-type: none"> a. They meet the criteria for necessity in par 10.3 and take into consideration the impacts described in par. 10.5.

<p>b. Organic sources or, as applicable, non-synthetic sources of these substances are not available in sufficient quality or quantity.</p> <p>c. They are annotated and reviewed as required by par. 6 and 7.</p> <p>B4.4 <i>Cleaning, Disinfection and Pest Control Substances</i> — Substances used for facility cleaning and disinfection and emergency pest control in such facilities (as listed in par. 11 and 12) may be of synthetic origin under the following conditions:</p> <p>a. They meet the criteria for necessity in par. 3 and take into consideration the impacts described in par. 5.</p> <p>b. Non-synthetic forms of these substances are not available in sufficient quality or quantity.</p> <p>c. They are annotated and reviewed as required in par. 6 and 7.</p> <p>B5 Impact of a Substance — Consideration shall be given to the following impacts when evaluating a substance for inclusion in this standard.</p> <p>B5.1 <i>All Substances</i></p> <p>a. The impact of a substance’s manufacture and disposal after use on the environment including impacts on ecology, surface and ground water, and soil and air quality including substance persistence, degradation and concentration effects.</p> <p>b. The impact on equivalency and harmonization of this standard with standards and regulations of other jurisdictions.</p> <p>B5.2 <i>Substances Used in Aquaculture Seaweeds, Plant and Animal Production</i> — The on-farm impact of the use and potential misuse of the substances listed in par 9.2, 9.3, 10.2 and 10.3 on</p>	<p>b. Organic sources or, as applicable, non-synthetic sources of these substances are not available in sufficient quality or quantity.</p> <p>c. They are annotated and reviewed as required by par. 10.6 and 10.7.</p> <p>10.4.4 Sanitation and Pest Control Substances — Substances used for facility sanitation and emergency pest control in such facilities (as listed in par. 6.7, 7.3 and 7.4 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>) may be of synthetic origin under the following conditions:</p> <p>a. They meet the criteria for necessity in par. 10.3 and take into consideration the impacts described in par. 10.5.</p> <p>b. Non-synthetic forms of these substances are not available in sufficient quality or quantity.</p> <p>c. They are annotated and reviewed as required in par. 10.6 and 10.7.</p> <p>10.5 Impact of a Substance — Consideration shall be given to the following impacts when evaluating a substance for inclusion in CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>.</p> <p>10.5.1 All Substances</p> <p>a. The impact of a substance’s manufacture and disposal after use on the environment including impacts on ecology, surface and ground water, and soil and air quality including substance persistence, degradation and concentration effects.</p> <p>b. The impact on equivalency and harmonization of this standard with standards and regulations of other jurisdictions.</p> <p>10.5.2 Substances Used in Primary Crop and Livestock Production — The on-farm impact of the use and potential misuse of the substances listed in par 4.2 to 5.3 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, on</p>
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<p>a. benthic quality including biological diversity and activity, structure, salinity, sodicity, and erodability;</p> <p>b. water quality;</p> <p>c. ecosystems (in particular non-target organisms) including wildlife and wildlife habitat;</p> <p>d. animal and human health, when applicable.</p> <p>B5.3 <i>Food Ingredients and Processing Aids</i> — The impact of the use and potential misuse of the substances listed in this standard, on</p> <p>a. human health through both food and non-food exposure, including acute and chronic toxicity, allergenicity and metabolites;</p> <p>b. product quality, including nutrition, flavour, taste, appearance and storage, when applicable;</p> <p>b. consumer perception of the nature, substance and quality of a food product.</p>	<p>a. soil quality including biological diversity and activity, structure, salinity, sodicity, erodability and tilth;</p> <p>b. surface and ground water quality;</p> <p>c. ecosystems (in particular non-target organisms) including wildlife and wildlife habitat;</p> <p>d. animal and human health, when applicable.</p> <p>10.5.3 <i>Food Ingredients and Processing Aids</i> — The impact of the use and potential misuse of the substances listed in par. 6.3 to 6.6 of CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, on</p> <p>a. human health through both food and non-food exposure, including acute and chronic toxicity, allergenicity and metabolites;</p> <p>b. product quality, including nutrition, flavour, taste, appearance and storage, when applicable;</p> <p>c. consumer perception of the nature, substance and quality of a food product.</p>
<p>B6 Origin and Usage Annotation</p> <p>B6.1 When applicable, the annotation accompanying a substance shall include</p> <p>a. any restrictions concerning its origin and mode of production</p> <p>b. any restrictions concerning its composition and usage.</p>	<p>10.6 Origin and Usage Annotation —</p> <p>When applicable, the annotation accompanying a substance shall include</p> <p>a. any restrictions concerning its origin and mode of production,</p> <p>b. any restrictions concerning its composition and usage.</p>
<p>B7 Exceptions</p> <p>B7.1 All substances included in the Permitted Substances Lists under exception criteria shall be</p> <p>a. identified as exceptions to the criteria</p> <p>b. re-evaluated for compliance according to the procedures set out in par. 1 each time this standard is subject to full</p>	<p>10.7 Exceptions —</p> <p>All substances included in CAN/CGSB-32.311, <i>Organic Production Systems — Permitted Substances Lists</i>, under exception criteria shall be</p> <p>a. identified as exceptions to the criteria;</p> <p>b. re-evaluated for compliance according to the procedures set out in par. 10.1 each time this standard and CAN/CGSB-32.311, <i>Organic Production</i></p>

review.

Note: *In accordance with the Canadian General Standards Board's policy, standards are subject to a full review every five years.*

Systems — Permitted Substances Lists, are subject to full review.

Informative note: *In accordance with the Canadian General Standards Board's policy, standards are subject to a full review every five years.*