NOSB COMMITTEE RECOMMENDATION

Form NOPLIST1. Committee Transmittal to NOSB

For NOSB Meeting: November 2008					Substance: Pelargonic Acid					
Committee: Crops √ Livestock ☐ Handling ☐ Petition is for: Pelargonic acid for use as an herbicide in farmstead									cide in farmstead	
maintenance(roadways,ditches,right of ways, building perimeters) & ornamental crops on the National List § 205.601(b)(1)										
A. Evaluation Criteria (Applicability noted for each category; Documentation attached) 1. Impact on Humans and Environment 2. Essential & Availability Criteria 3. Compatibility & Consistency 4. Commercial Supply is Fragile or Potentially Unavailable as Organic (only for 606) Criteria Satisfied? (see B below) Yes										
B. Substance Fails Category 3 Question	B. Substance Fails Criteria Category: 2 & 3 Comments: See Evaluation Criteria Category 2 Questions 7, 9, 10 and									
C. Proposed Annota			,							
Basis for annotation	on: To meet criteria a	bove	: Oth	ner regul	atory cri	iteria:	Citation:_			
D. Recommended Committee Action & Vote (State Actual Motion): To add Pelargonic acid to the National List of synthetic substances allowed in organic crop production as an herbicide for use in farmstead and ornamental crop use.										
Motion by: <u>Davis</u>									stain: _ <u>0</u>	
	Crops	Х	Agricultural			Allowed ¹				
	Livestock		Non-Synthetic			Prohibited ²				
	Handling		Synthetic		Х	Rejected ³		Χ		
	No restriction		Commercially U Available as Or	Jn- ganic ¹		Deferred ⁴				
1) Substance voted to be added as "allowed" on National List to § 205with Annotation (if any)										
2) Substance to be ad	2) Substance to be added as "prohibited" on National List to § 205with Annotation (if any)									
Describe why a prohil	oited substance:									
3) Substance was rejected by vote for amending National List to § 205.601(b)(1) Describe why material was rejected: Soap-based herbicide' is the only category of synthetic herbicides allowed in the provisions of the OFPA. Could not classify material as a soap. Referring to OFPA, the original legislation was carefully written to prevent widespread additions of exempted synthetics on the national list. To further quote the preamble of OFPA, "Most consumers believe that absolutely no synthetic substances are used in organic production. For the most part, they are correct and this is the basic tenet of this legislation". Please refer to the attached preamble of OFPA: 101 ST CONGRESS, 2nd Session, SENATE REPORT 101-357 FOOD, AGRICULTURE, CONSERVATION, AND TRADE ACT OF 1990 REPORT OF THE COMMITTEE ON AGRICULTURE, NUTRITION, AND FORESTRY, UNITED STATES SENATE TO ACCOMPANY S. 2830 together with ADDITIONAL AND MINORITY VIEWS JULY 6, 1990 Ordered to be printed Filed under authority of the order of the Senate of June 26 (legislative day, June 11), 1990 Page 289 TITLE XVI—ORGANIC CERTIFICATION PROGRAM The National List.										
4) Substance was recommended to be deferred because If follow-up needed, who will										
follow up										
E. Approved by Committee Chair to transmit to NOSB:										
Gerald Day	/is			9/17/2008	8		-			
Committee Chair			Da	ate						

NOSB EVALUATION CRITERIA FOR SUBSTANCES ADDED TO THE NATIONAL LIST

Category 1. Adverse impacts on humans or the environment? Substance - Pelargonic Acid

Question	Yes	No	N/A ¹	Documentation (TAP)
				(TAP; petition; regulatory agency; other)
1. Are there adverse effects on	37			High aquatic organism bio-concentration potential. Slight
environment from manufacture,	X			toxicity to fish, amphibians, and zooplankton. TAP 202-212
use, or disposal?				
[§205.600 b.2]				
2. Is there environmental				Specific information not found (TAP 172) although the
contamination during manufacture,		X		potential for misuse exists. TAP 188-190
use, misuse, or disposal? [§6518				
m.3]				
3. Is the substance harmful to the				See Question #1
environment?	X			
[§6517c(1)(A)(i);6517(c)(2)(A)i]				
4. Does the substance contain List				Material itself is listed on EPA List 3. TAP 76
1, 2, or 3 inerts?	X			
[§6517 c (1)(B)(ii); 205.601(m)2]				
5. Is there potential for detrimental				No information provided to answer question.
chemical interaction with other				The initial provided to unity of question.
materials used?				
[§6518 m.1]				
6. Are there adverse biological and				Unlikely if used properly. TAP 231-236
chemical interactions in agro-		X		Officery if used property. 1At 231-230
ecosystem? [§6518 m.5]		Λ		
				The state of the s
7. Are there detrimental	v			Toxic to worms, bacteria, protozoa, and algae under improper
physiological effects on soil	X			or excessive use. TAP 241-247
organisms, crops, or livestock?				
[§6518 m.5]				G 0 1 114 1 1140
8. Is there a toxic or other adverse	**			See Question #1and #10
action of the material or its	X			
breakdown products?				
[§6518 m.2]				
9. Is there undesirable persistence				TAP 310-313
or concentration of the material or		X		
breakdown products in				
environment?[§6518 m.2]				
10. Is there any harmful effect on				Material is EPA Toxicity Category II for eye irritation and
human health?	X			Category III for dermal and inhalation effects. TAP 252-257
[§6517 c (1)(A)(i); 6517 c(2)(A)i;				Occupational exposure may occur through dermal/inhalation
§6518 m.4]				contact at workplaces where produced or used. TAP 318-340
11. Is there an adverse effect on				
human health as defined by			X	
applicable Federal regulations?				
[205.600 b.3]				
12. Is the substance GRAS when				
used according to FDA's good			X	
manufacturing practices? [§205.600				
b.5]				
13. Does the substance contain				
residues of heavy metals or other			X	
contaminants in excess of FDA			**	
tolerances? [§205.600 b.5]				
toterances: [8203.000 0.3]]	

¹If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 2. Is the Substance Essential for Organic Production? Substance - Pelargonic Acid

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Is the substance formulated or manufactured by a chemical process? [6502 (21)]	X			TAP 135-149
2. Is the substance formulated or manufactured by a process that chemically changes a substance extracted from naturally occurring plant, animal, or mineral, sources? [6502 (21)]	X			TAP 158-160
3. Is the substance created by naturally occurring biological processes? [6502 (21)]		X		TAP 165-167
4. Is there a natural source of the substance? [§205.600 b.1]			X	
5. Is there an organic substitute? [§205.600 b.1]			X	
6. Is the substance essential for handling of organically produced agricultural products? [§205.600 b.6]			X	
7. Is there a wholly natural substitute product? [§6517 c (1)(A)(ii)]	X			Natural acids such as vinegar and citric acid. Natural oils of clove, thyme, or lemongrass are phyto-toxic to weeds. Corn gluten meal for pre-emergent weed control (TER line 345-356)
8. Is the substance used in handling, not synthetic, but not organically produced? [§6517 c (1)(B)(iii)]			X	
9. Is there any alternative substances? [§6518 m.6]	X			Soap based herbicides for use in farmstead areas and ornamental crops. Plastic film weed barriers. (TER line 364-370)
10. Is there another practice that would make the substance unnecessary? [§6518 m.6]	X			Crop rotation, intercropping, cultivation, various mowing techniques including weed badger equipment, stale seed-bed methods with flame or hot water applicators. (TER line 375-397)

¹If the substance under review is for crops or livestock production, all of the questions from 205.600 (b) are N/A—not applicable.

Category 3. Is the substance compatible with organic production practices? Substance - Pelargonic Acid

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Is the substance compatible with organic handling? [§205.600 b.2]			X	
2. Is the substance consistent with organic farming and handling? [§6517 c (1)(A)(iii); 6517 c (2)(A)(ii)]		X		No. The material does not meet the accepted criteria in order to be classified as a soap.
3. Is the substance compatible with a system of sustainable agriculture? [§6518 m.7]	X			Material is relatively non-toxic, non-recalcitrant chemical control of weeds.
4. Is the nutritional quality of the food maintained with the substance? [§205.600 b.3]			X	
5. Is the primary use as a preservative? [§205.600 b.4]			X	
6. Is the primary use to recreate or improve flavors, colors, textures, or nutritive values lost in processing (except when required by law, e.g., vitamin D in milk)? [205.600 b.4]			X	
7. Is the substance used in production, and does it contain an active synthetic ingredient in the following categories: a. copper and sulfur compounds;		X		
b. toxins derived from bacteria;		X		
c. pheromones, soaps, horticultural oils, fish emulsions, treated seed, vitamins and minerals?		X		See Question #2 above. The material is classified as as a 9 carbon chain carboxylic acid synthetically produced through ozonolysis. Additional information was not found that would justify classifying it as a soap
d. livestock parasiticides and medicines?		X		
e. production aids including netting, tree wraps and seals, insect traps, sticky barriers, row covers, and equipment cleaners?		X		

Category 4. Is the commercial supply of an agricultural substance as organic, fragile or potentially unavailable? [$\S6610, 6518, 6519, 205.2, 205.105$ (d), 205.600 (c) 205.2, 205.105 (d), 205.600 (c) Substance – Pelargonic Acid

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Question	Yes	No	N/A	Comments on Information Provided (sufficient, plausible, reasonable, thorough, complete, unknown)
1. Is the comparative description				plausible, reasonable, thorough, complete, unknown)
provided as to why the non-organic			X	
form of the material /substance is			Λ	
necessary for use in organic handling?				
2. Does the current and historical				
industry information, research, or			v	
evidence provided explain how or why the material /substance cannot be			X	
obtained organically in the appropriate				
<u>form</u> to fulfill an essential function in				
a system of organic handling?				
3. Does the current and historical				
industry information, research, or				
evidence provided explain how or why			X	
the material /substance cannot be				
obtained organically in the appropriate				
quality to fulfill an essential function				
in a system of organic handling?				
4. Does the current and historical				
industry information, research, or				
evidence provided explain how or why			X	
the material /substance cannot be				
obtained organically in the appropriate				
quantity to fulfill an essential				
function in a system of organic				
handling?				
5. Does the industry information				
provided on material / substance non-				
availability as organic, include (but			X	
not limited to) the following:				
a. Regions of production (including				
factors such as climate and number of				
regions);				
b. Number of suppliers and amount				
produced;				
produced,			X	
c. Current and historical supplies				
related to weather events such as				
hurricanes, floods, and droughts that			X	
may temporarily halt production or			11	
destroy crops or supplies;				
destroy crops or supplies,				
d. Trade-related issues such as	l 			
evidence of hoarding, war, trade				
barriers, or civil unrest that may			X	
temporarily restrict supplies; or			**	
e. Are there other issues which may	<u> </u>			
present a challenge to a consistent				
supply?			X	
suppry:			A	

101 ST CONGRESS 2nd Session SENATE REPORT 101-357

FOOD, AGRICULTURE, CONSERVATION, AND TRADE ACT OF 1990 REPORT OF THE COMMITTEE ON AGRICULTURE, NUTRITION, AND FORESTRY, UNITED STATES SENATE

TO ACCOMPANY S. 2830 together with

ADDITIONAL AND MINORITY VIEWS JULY 6, 1990 Ordered to be printed Filed under authority of the order of the Senate of June 26 (legislative day, June 11), 1990 Page 289

TITLE XVI—ORGANIC CERTIFICATION PROGRAM The National List

Most consumers believe that absolutely no synthetic substances are used in organic production. For the most part, they are correct and this is the basic tenet of this legislation. But there are a few limited exceptions to the no-synthetic rule and the National List is designed to handle these exceptions.

Organic farmers have used some synthetic substances for several good reasons. For example, some organic farmers use certain synthetic analogues to natural substances when those substances are difficult to obtain. Insect pheromones a often-used biological control substance in organic farming, are very difficult to collect in nature and are therefore synthetically produced. The Committee does not specifically disallow the use of pheromones in organic farming simply because they are synthetically produced when pheromones are effective and ecologically benign.

The Committee does not intend to allow the use of many synthetic substances. This legislation has been carefully written to prevent widespread exceptions or "loopholes" in the organic standards which would circumvent the intent of this legislation. The few synthetic substances that are widely recognized as safe and traditionally used in organic production are explicitly cited in the bill as potential items to be included on the National List if the Board and the Secretary approve of their use.

The Board and the Secretary may consider allowing the use of synthetic active ingredients in the following categories only: pheromones; copper and sulfur compounds; soaps; horticultural oils; toxins derived from bacteria; treated seed; fish emulsions; vitamins and minerals; livestock parasiticides and medicines; and production aids such as machinery cleansers.

Organic farmers also use substances in which the active ingredient is known to be natural but which also contain inert ingredients that are undisclosed as a matter of trade secret law under the Federal Insecticide Fungicide Rodenticide Act. The Committee suspects that many of these inert ingredients are synthetic. For example, adjuvants would fall into this category.

Until such time as FIFRA is altered to require the full disclosure of inert ingredients, organic farmers should be allowed to continue using compounded substances if the active ingredient is natural and if use of the substance is recommended by the National Organic Standards Board and approved by the Secretary for inclusion on the National List. However, in order for the National Organic Standards Board to evaluate whether certain compounds should be listed, the Board will need some information about the inert ingredients in question. The Committee directs the Board to seek the advice of the Administrator of the EPA, who has information on inert ingredients submitted as part of registration, as to whether such inert material would be appropriate for organic production. EPA's response will not limit its regulatory responsibility for such material.

Almost all state and private organization standards also provide for certain exceptions from the nosynthetic rule, some more explicitly than others. In deciding upon an acceptable list of materials for the Organic Standards Board and the Secretary to consider the Committee surveyed State and private regulations to ensure that the above categories, while more restrictive than most of the current standards,

Decision Sheets

will indeed protect the integrity of the organic product while at the same time provide the producer a reasonable amount of flexibility on production materials.

The Committee understands that just because a substance is natural does not mean that it is safe and appropriate for organic production. The National List may also include natural substances otherwise allowed under this title but which are determined to be harmful to human health or the environment and inconsistent with organic farming. Certain botanical pesticides may be considered by the Organic Standards Board and the Secretary to be inappropriate for organic production because their use poses significant harm to human health or the environment. Whatever natural items appear on the National List shall be prohibited from use in organic production.

Finally, the National List is designed to cover ingredients used in processing. The bill allows that up to five percent of processed food labeled "organically produced" may contain non-synthetic ingredients which are not organically produced if those ingredients are included on the National List. The five percent figure was arrived at after consulting with various organic food processors as the amount of flexibility necessary in processed food. The Committee intends that the guideline for processed food ingredients on the National List be that some ingredients are difficult or impossible to obtain. An example might be certain spices that are unavailable at this time from an organic farm. It may also include items that are not technically organically produced such as yeast.

Several steps must be taken before an item appears on the National List in any of the above categories. First the Organic Standards (Board must review the substances in question based upon criteria cited in the bill and with the aid of the Board's technical panels. The Board may decide what substances require review. As well, individuals may petition the Board to evaluate substances for inclusion on the National List. The Board then constructs a Proposed National List which is submitted to the Secretary as a recommendation for composition of the Final National List.

The Secretary may not include exemptions for synthetic substances other than those exemptions recommended by the National Organic Standards Board. The Proposed National List represents the universe of synthetic materials from which the Secretary may choose. Before establishing the final National List the Secretary shall publish the Proposed National List in the Federal Register and seek Public comment. The same procedures are to be followed for any amendments to the National List.