NOSB COMMITTEE RECOMMENDATION

Form NOPLIST1. Committee Transmittal to NOSB

For NOSB Meeting:	<u>May 2009</u>		Substa	Substance: <u>Myrrh essential oil (Commiphora myrrha)</u>				
Committee: Crops \Box Livestock \Box Handling $$ Petition is for: <u>The inclusion of myrrh essential oil (Commiphora myrrha) for use in perfume</u> on the National List § 205.606								
A. Evaluation Criteria (Applicability noted for each category; Documentation attached) Criteria Satisfied? (see B below) 1. Impact on Humans and Environment Yes √ No □ N/A □ 2. Essential & Availability Criteria Yes √ No □ N/A □ 3. Compatibility & Consistency Yes √ No □ N/A □ 4. Commercial Supply is Fragile or Potentially Unavailable as Organic (only for 606) Yes √ No □ N/A □								
B. Substance Fails	Criteria Category: _	Comr	nents:					
C. Proposed Annotation (if any):								
Basis for annotatio	on: To meet criteria a	above:	Other regulatory	criteria:	Citation:			
D. Recommended C	Committee Action 8	Vote (State Act	ual Motion): <u>To</u>	include my	rrh essential oil (C	Commiphora myrrh	<u>na)</u>	
for use in perfume o	n the National List §	205.606						
Motion by: <u>G.Davis</u>	Seconded: <u>S</u>	<u>. DeMuri</u> Yes	s: <u>4</u> No: _	<u>0</u> Abs	ent: <u>2</u> Ab	bstain: <u>0</u>		
	Crops	Agricultura	al X	Allowe	d ¹	X		
	Livestock	Non-Synth		Prohibi		<u></u>		
	Handling	X Synthetic		Reject	ed ³			
	No restriction	Commerc Available	ally Un- as Organic ¹ X	Deferre	Deferred ⁴			
1) Substance voted to be added as "allowed" on National List to § 205.606. with Annotation (if any) No annotation								
2) Substance to be added as "prohibited" on National List to § 205with Annotation (if any)								
Describe why a prohibited substance:								
3) Substance was rejected by vote for amending National List to § 205Describe why material was rejected:								
4) Substance was recommended to be deferred because								
follow up In follow-up fielded, who will								
E. Approved by Committee Chair to transmit to NOSB: <u>Steve DeMuri</u> Committee Chair <u>March 16, 2009</u> Date								

NOSB EVALUATION CRITERIA FOR SUBSTANCES ADDED TO THE NATIONAL LIST

Category 1. Adverse impacts on humans or the environment?

Substance - <u>Myrrh essential oil</u>

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Are there adverse effects on		X		Petition
environment from manufacture,				
use, or disposal?				
[§205.600 b.2]				
2. Is there environmental		Х		Petition
contamination during manufacture,				
use, misuse, or disposal? [§6518				
m.3]				
3. Is the substance harmful to the		Х		Petition
environment?				
[§6517c(1)(A)(i);6517(c)(2)(A)i]				
4. Does the substance contain List		Х		
1, 2, or 3 inerts?				
[§6517 c (1)(B)(ii); 205.601(m)2]				
5. Is there potential for detrimental		Х		
chemical interaction with other				
materials used?				
[§6518 m.1]				
6. Are there adverse biological and		Х		Not intended for crop use
chemical interactions in agro-				1
ecosystem? [§6518 m.5]				
7. Are there detrimental		Х		Not intended for crop use
physiological effects on soil				
organisms, crops, or livestock?				
[§6518 m.5]				
8. Is there a toxic or other adverse		Х		
action of the material or its				
breakdown products?				
[§6518 m.2]				
9. Is there undesirable persistence		Х		
or concentration of the material or				
breakdown products in				
environment?[§6518 m.2]				
10. Is there any harmful effect on	Х			Undiluted material may be irritant to the eyes
human health?				
[§6517 c (1)(A)(i) ; 6517 c(2)(A)i;				
§6518 m.4]				
11. Is there an adverse effect on		Х		FDA approved as a food flavor.(petition)
human health as defined by				
applicable Federal regulations?				
[205.600 b.3]				
12. Is the substance GRAS when	Х			Petition
used according to FDA's good				
manufacturing practices? [§205.600				
b.5]				
13. Does the substance contain		Х		
residues of heavy metals or other				
contaminants in excess of FDA				
tolerances? [§205.600 b.5]				

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 – <u>Myrrh essential oil</u>

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		Essential oil produced by steam distillation of oleoresin material exuded as sap from the plant Commiphora myrrha.
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		Substance is extracted from natural plant source without chemical change.
3. Is the substance created by naturally occurring biological processes? [6502 (21)]		X		
4. Is there a natural source of the substance? [§205.600 b.1]			X	Substance is natural.
5. Is there an organic substitute? [§205.600 b.1]		X		Petitioner claims that no organically produced myrrh oil is available. HC member internet search produced no organic sources.
6. Is the substance essential for handling of organically produced agricultural products? [§205.600 b.6]	X			Petitioner claims substance is a vital component of certain perfumes.
7. Is there a wholly natural substitute product? [§6517 c (1)(A)(ii)]		X		Fragrance is specific to this plant material.
8. Is the substance used in handling, not synthetic, but not organically produced? [§6517 c (1)(B)(iii)]	Х			See question 10
9. Is there any alternative substances? [§6518 m.6]		Х		
10. Is there another practice that would make the substance unnecessary? [§6518 m.6]	Х			Fair trade marketing efforts to work more directly with indigenous harvesters could potentially produce a certified organic (wild harvested) product.

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 - <u>Myrrh essential oil</u>

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			As long as the substance used as a component of organically certified perfumes is part of the 5% non-organic portion and resultant perfume product is not designated with myrrh in the name.
2. Is the substance consistent with organic farming and handling? [§6517 c (1)(A)(iii); 6517 c (2)(A)(ii)]	X			As a wild harvested material and extracted and/or diluted with natural solvents only.
3. Is the substance compatible with a system of sustainable agriculture? [§6518 m.7]	Х	Х		Limited information raises concern of potential over- harvesting of the native shrubs from which myrrh is derived.
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]		Х		
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;			Х	
c. pheromones, soaps, horticultural oils, fish emulsions, treated seed, vitamins and minerals?			X	
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	

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 4. Is the commercial supply of an agricultural substance as organic, fragile or potentially unavailable? [§6610, 6518, 6519, 205.2, 205.105 (d), 205.600 (c) 205.2, 205.105 (d), 205.600 (c)] Substance - <u>Myrrh essential oil</u>

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