NOSB COMMITTEE RECOMMENDATION Form NOPLIST1. Committee Transmittal to NOSB

For NOSB Meeting:	<u>March 2007</u>	_	Substance: <u>Carbon Dioxide</u>						
Committee: Crops 🗌 Livestock 🗌 Handling X Petition is for:									
Inclusion on the National List § 205.605									
Inclusion on the National List § 205.605 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: Comments:									
The Handling C	synthetics allowed in organic production and therefore items listed on § 205.605(b) continue to be allowed for inclusion in organic production. For this reason moving this item is unnecessary. The Handling Committee recommends making no changes to the National List in response to this petition <i>Motion by</i> : <u>Julie Weisman</u> Seconded: <u>Andrea Caroe</u> Yes: <u>5</u> No: <u>0</u> Absent: <u>0</u> Abstain: <u>0</u>								
	Crops	Agricultural		Allowed ¹]			
	Livestock	Non-Synthetic		Prohibited ²					
	Handling	Synthetic Rejected ³							
	No restriction Commercially Un- Available as Organic ¹ Deferred ⁴								
1) Substance voted to be added as "allowed" on National List to § 205with Annotation (if any)									
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									
In follow up In follow up needed, who will									
E. Approved by Committee Chair to transmit to NOSB: <u>Julie Weisman</u> <u>February 19, 2007</u> Committee Chair Date									

NOSB EVALUATION CRITERIA FOR SUBSTANCES ADDED TO THE NATIONAL LIST

Category 1. Adverse impacts on humans or the environment?

Substance - _ Carbon Dioxide____

1. Are there adverse effects on environment Toric manufacture, use, or disposal?	Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
use. or disposal?					
[18205.600 b.2]					
2. Is there environmental contamination during manufacture, tuse, misuse, or disposal? [\$6518 m.3]					
contamination during manufacture, use, misuse, or disposal? [§6518					
use, misuse, or disposal? [§6518 m.3] 3. Is the substance harmful to the environment? (§6517c (1)(A)(i);6517c(2)(A)i] 4. Does the substance contain List 1, 2, or 3 inerts? [§6517c (1)(B)(i);205.001(m)2] 5. Is there potential for detrimental chemical interactions with other materials used? [§6518 m.1] 6. Are there adverse biological and chemical interactions in agro- ecosystem? [§6518 m.5] 7. Are there adverse biological and chemical interactions in agro- ecosystem? [§6518 m.5] 7. Are there adverse biological and chemical interactions in agro- ecosystem? [§6518 m.5] 8. Is there a toxic or other adverse action of the material or breakdown products? [§6518 m.2] 9. Is there undesirable persistence or concentration of the material or breakdown products? [§6518 m.2] 10. Is there any harmful effect on human health? [§6518 m.4] 11. Is there an adverse effect on human health? [§6518 m.4] 12. Is the substance GRAS when used according to FDA's good manufacturing practices? [\$205.000 b.5] 13. Does the substance contain residues of heavy metals or other contaminants in excess of FDA	2. Is there environmental				
n.3]					
3. Is the substance harmful to the environment?	use, misuse, or disposal? [§6518				
environment? [§6517c(1)(A)(i);6517c(2)(A)i] 4. Does the substance contain List 1. 2, or 3 inerts? [§6517 c (1)(B)(ii); 205.601(m)2] 5. Is there potential for detrimental chemical interaction with other materials used? [§6518 m.1] 6. Are there adverse biological and chemical interaction is agro- ecosystem? [§6518 m.5] 7. Are there detrimental physiological effects on soil organisms, crops, or livestock? [§6518 m.5] 7. Are there detrimental physiological effects on soil organisms, crops, or livestock? [§6518 m.5] 9. Is there a toxic or other adverse action of the material or its breakdown products? [§6518 m.2] 9. Is there undesirable persistence or concentration of the material or breakdown products in environment?[§6518 m.2] 10. Is there any harmful effect on human health? [§6518 m.4] 11. Is there an adverse effect on human health? [§6518 m.4] 11. Is there an adverse effect on human health as defined by applicable Federal regulations? [205.600 b.5] 13. Does the substance contain residues of heavy metals or other contaminants in excess of FDA	m.3]				
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residues of heavy metals or other contaminants in excess of FDA					
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 - _ Carbon Dioxide____

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)]				
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)]				
3. Is the substance created by naturally occurring biological processes? [6502 (21)]				
4. Is there a natural source of the substance? [§205.600 b.1]				
5. Is there an organic substitute? [§205.600 b.1]				
6. Is the substance essential for handling of organically produced agricultural products? [§205.600 b.6]				
7. Is there a wholly natural substitute product? [§6517 c (1)(A)(ii)]				
8. Is the substance used in handling, not synthetic, but not organically produced? [§6517 c (1)(B)(iii)]				
9. Is there any alternative substances? [§6518 m.6]				
10. Is there another practice that would make the substance unnecessary? [§6518 m.6]				Il of the questions from 205 600 (b) are N/A—not applicable

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 - _ Carbon Dioxide____

Question	Yes	No	N/A ¹	Documentation (TAP; petition; regulatory agency; other)
1. Is the substance compatible with organic handling? [§205.600 b.2]				
2. Is the substance consistent with organic farming and handling? [§6517 c (1)(A)(iii); 6517 c (2)(A)(ii)]				
3. Is the substance compatible with a system of sustainable agriculture? [§6518 m.7]				
4. Is the nutritional quality of the food maintained with the substance? [§205.600 b.3]				
5. Is the primary use as a preservative? [§205.600 b.4]				
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]				
7. Is the substance used in production, and does it contain an active synthetic ingredient in the following categories:a. copper and sulfur compounds;				
b. toxins derived from bacteria;				
c. pheromones, soaps, horticultural oils, fish emulsions, treated seed, vitamins and minerals?				
d. livestock parasiticides and medicines?				
e. production aids including netting, tree wraps and seals, insect traps, sticky barriers, row covers, and equipment cleaners?	-			

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 - ____ Carbon Dioxide_____

Question	Yes	No	N/A	Comments on Information Provided (sufficient, plausible, reasonable, thorough, complete, unknown)
1. Is the comparative description				plausibic, reasonabic, thorough, complete, unknown/
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				
industry information, research, or				
evidence provided explain how or why				
the material /substance cannot be				
obtained organically in the appropriate				
form 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				
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				
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				
provided on material / substance non-				
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				
produced;				
c. Current and historical supplies				
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				
evidence of hoarding, war, trade				
barriers, or civil unrest that may				
temporarily restrict supplies; or				
e. Are there other issues which may				
present a challenge to a consistent				
supply?				