FLAVORCHEM INT. INC. – NAQADA PACIFIC PETITON TO USDA INCLUSION OF MAGNESIUM CARBONATE IN NOP NATIONAL LIST

DATE SUBMITTED:

Submitted in duplicate to: National Organic Standards Board,

c/o Robert Pooler, Agricultural Marketing Specialist,

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What Are the Substances for Which a Petition May be Submitted?

Only single substances or ingredients may be petitioned for evaluation. Formulated products cannot appear on the National List. Substances that appear on USDA's current Proposed National List, 65 Fed. Reg.13626-13628 (2000), should not be petitioned for inclusion on the National List.

ALL GUIDING DOCUMENTS AVAILABLE AT:

HTTP://WWW.AMS.USDA.GOV/NOP/PETITION/PETITIONHOME.HTML

| | Petition Category | Nonorganically produced agricultural products allowed as ingredients in or on processed products labeled as "organic" or made with organic (specified ingredients). |
|----|--|---|
| 2 | Substance common | Magnesium Carbonate |
| 3 | Manufacturer's name, address and telephone number: | Ichiman Osaka, Japan |
| 4 | Intended or current use of substance: | Filtering aid. |
| 5 | List the "mode of action" of the substance: | N/A |
| 6 | Substance source: | Magnesium Carbonate consists of odorless, white hexagonal crystals. |
| 7 | Substance processing procedure from basic component(s) to final product:* | N/A |
| 69 | Summary of available previous reviews by State or private certification programs or other: | N/A |
| 9 | Information re EPA, FDA and State regulatory authority | The FDA of the USA affirmed in their final rule that magnesium carbonate is generally recognized as safe (GRAS) for use as direct human food ingredients (FDA85). |

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| | registrations including reg numbers: | |
|----|---|--|
| 10 | Chemical abstract Service (CAS) number or other numbers: | CAS Number: 546-93-0 |
| | Substance's physical properties and chemical mode of action; (a) chemical interaction (b) toxicity and environmental persistence (c) impacts of manufacture | (a) N/A (b) N/A (c) N/A |
| 12 | MSDS sheet: | N/A |
| 13 | National Institute of Environmental Health Studies. | N/A |
| 4 | Comprehensive substance research reviews and bibliographies including contrasting positions: | N/A |
| 15 | Petition Justification Statement: | Magnesium carbonate is used as a filtering aid, to clarify drinking water etc. |

Category 1. Adverse impacts on humans or the environment?

Substance Magnesium Carbonate

| FRANCE FOR THE STATE OF THE STA | . A bandil | le at the same | Markon da () | Charlet III (1917) (Spinitulpost Logia, publicus (Scholevia) Comercial (Scholevia) |
|--|---------------|---------------------|---|--|
| Question | | | ## | |
| Question | | | | Documentation (LAP; petition, regulatory agency, other) |
| 1. Are there adverse effects on | Glillington : | Territorial | 1 151 | |
| environment from manufacture, | | 1 | | Magnesium Carbonate is recognized as safe for human food |
| use, or disposal? | | Į | | ingredients (GRAS). |
| [§205.600 b.2] | | | | |
| 2. Is there environmental | | | l N/A | Palentina and a second a second and a second a second and |
| contamination during | | | IN/A | |
| manufacture, use, misuse, or | į | | | |
| disposal? [§6518 m.3] | | | | |
| 3. Is the substance harmful to the | | . . | N/A | - MAS-MANIMAN MANIMAN |
| environment? | | ļ | IN/A | |
| | | • | | |
| [§6517c(1)(A)(i);6517(c)(2)(A)i] 4. Does the substance contain List | r | | 3.7/4 | 1457676 |
| 1, 2, or 3 inerts? | | | N/A | |
| 1, 2, 61 3 merts? [§6517 c (1)(B)(ii); 205.601(m)2] | ĺ | | | |
| [80217 c (1)(D)(II); 202.001(M)2] | | | | |
| # | | | | |
| | | | | |
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| | | | | |
| 8 | | | | |
| | | | | |
| | | | | |
| 5. Is there potential for | | | N/A | The state of the s |
| detrimental chemical interaction | | | | |
| with other materials used? | | | | |
| [§6518 m.I] | | | | |
| 6. Are there adverse biological | | | N/A | 11.11 |
| and chemical interactions in agro- | | | * 17 * * | |
| ecosystem? [§6518 m.5] | | | | |
| 7. Are there detrimental | ¥ | | N/A | The distribution of the state o |
| physiological effects on soil | | | | |
| organisms, crops, or livestock? | İ | | | |
| [§6518 m.5] | | | | |
| 8. Is there a toxic or other adverse | | | N/A | TV-Villamannamannamannamannamannamannamannam |
| action of the material or its | | | **** | |
| breakdown products? | | 4 | | |
| [§6518 m.2] | | 1 | 1 | |
| 9. Is there undesirable persistence | 1 | ******************* | N/A | The transmission of the second |
| or concentration of the material or | | | w 11 A.P | |
| breakdown products in | | | | |
| environment?[§6518 m.2] | | 1 | | |
| 10. Is there any harmful effect on | 1 | NO T | 1 | This substance is generally recognized as safe |
| human health? | | 1,0 | **** | |
| [§6517 c (1)(A)(i); 6517 c(2)(A)i; | | | *************************************** | when used in accordance with good manufacturing |
| §6518 m.4] | | | | practices. |
| 11. Is there an adverse effect on | | NO | | This substance is generally recognized as safe |
| human health as defined by | | | | |
| applicable Federal regulations? | | 1 | | when used in accordance with good manufacturing |
| [205.600 b.3] | - | Hilliam | . | practices. |
| 12. Is the substance GRAS when | Yes | - | | V-/-187 |
| used according to FDA's good | 2.00 | | İ | |
| eros monormis of the panil | <u>!</u> | | | |

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| manufacturing practices? [§205.600 b.5] | | 7.75 |
|---|-----|--------------|
| 13. Does the substance contain | N/A | UPO-NACE |
| residues of heavy metals or other | | |
| contaminants in excess of FDA | | |
| tolerances? [§205.600 b.5] | | |

If 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 Magnesium Carbonate

| Question | Yes. | | | Decumentation |
|-------------------------------------|------|---|-----|--|
| | | | | (TAP: petition; regulatory agency; other) |
| 1. Is the substance formulated or | | | N/A | |
| manufactured by a chemical | | | | |
| process? [6502 (21)] | | | | The state of the s |
| 2. Is the substance formulated or | | | N/A | |
| 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 | | | N/A | |
| naturally occurring biological | | | | |
| processes? [6502 (21)] | | | | |
| 4. Is there a natural source of the | | | N/A | - TAL |
| substance? [§205.600 b.1] | | | | |
| 5. Is there an organic substitute? | | Х | İ | C North Commonwelling |
| [§205,600 b.1] | | | ĺ | |
| 6. Is the substance essential for | X | | | TO AN SAMPLAGASAN PARAMETERS AND AND AND AND AND AND AND AND AND AND |
| handling of organically | | | | |
| produced agricultural products? | | | | |
| [§205.600 b.6] | | | | |
| 7. Is there a wholly natural | | X | i | The state of the s |
| substitute product? | | | | |
| [§6517 c (1)(A)(ii)] | | | | |
| 8. Is the substance used in | X | | | The state of the s |
| handling, not synthetic, but not | | | | |
| organically produced? | | | | |
| [§6517 c (1)(B)(iii)] | 1 | | | |
| 9. Is there any alternative | | Х | | |
| substances? [§6518 m.6] | 1 | | | |
| 10. Is there another practice that | Ť. | X | | The state of the s |
| would make the substance | 4 | | | |
| unnecessary? [§6518 m.6] | | | | |

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 Magnesium Carbonate

| | T ashii | | Black, 110 | DPASSIBLE OF THE STATE OF THE OWNER OF THE STATE OF THE S |
|---|---------|-------------------|-----------------------------|---|
| Question | Yes | Xu | KT/A | |
| Question | 1 | | | Documentation (DAP, pention; regulatory agency; other) |
| 1. Is the substance compatible | X | | 1 | PROBLEMENT C+++ |
| with organic handling? | | | | |
| [§205.600 b.2] | | | | |
| 2. Is the substance consistent | | | N/A | And a second the second |
| with organic farming and | | | + x/ 4 | |
| handling? [§6517 c (1)(A)(iii); | | | | |
| 6517 c (2)(A)(ii)] | | | | |
| 3. Is the substance compatible | | ······ | N/A | |
| with a system of sustainable | | | 5 17 d Ar | |
| agriculture? [§6518 m.7] | | | | |
| 4. Is the nutritional quality of the | X | | | |
| food maintained with the | | | | |
| substance? [§205.600 b.3] | | | | |
| 5. Is the primary use as a | | X | | Т TP Удовиновання на принципання пр |
| preservative? [§205.600 b.4] | | 1 | | |
| 6. Is the primary use to recreate | | X | | 7-3F-2T-1 |
| or improve flavors, colors, | i | 1 | | |
| textures, or mutritive values lost | | | | |
| in processing (except when | | | | |
| required by law, e.g., vitamin D | | 1 | | |
| in milk)? [205,600 b.4] | | | | |
| 7. Is the substance used in | | X | | |
| production, and does it contain | 1 | | | |
| an active synthetic ingredient in | | | | |
| the following categories: | | To the second | | |
| a. copper and sulfur compounds; | | 1 | | |
| 1 F 50 F 7 DES F130 7 F30 CC DEF CORE 1 DE FEDRE F DE PERE CONTRA ME QU U UC (1) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | | | T Charles and June 1 and Co | AND AND AND AND AND AND AND AND AND AND |
| b. toxins derived from bacteria; | 1 | X | | 7 7 6 7 100 7 |
| c. pheromones, soaps, | | | N/A | |
| horticultural oils, fish emulsions, | | | 17/2% | *************************************** |
| treated seed, vitamins and | Ì | | 1 | |
| minerals? | | | 1 | |
| d. livestock parasiticides and | | | N/A | |
| medicines? | 1 | | M 47 6 30 1 | |
| | | | | |
| e. production aids including | ., | 1 PT F T N. F T S | N/A | ************************************** |
| netting, tree wraps and seals, | | Prefit Assesse | | · |
| 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.