# NOSB NATIONAL LIST FILE CHECKLIST

### **PROCESSING**

MATERIAL NAME: #2 Baking Powder, Aluminum Free

NOSB Database Form

References

MSDS (or equivalent)

TAP Reviews from: Rich Theuer, Joe Montecalvo

## NOSB/NATIONAL LIST COMMENT FORM PROCESSING

Material Name: #2 Baking Powder, Aluminum Free

Please use this p	age to write	down	comments,	questions,	and your	anticipated	vote(s).

#### **COMMENTS/QUESTIONS:**

1. In my opinion Synthetic	•		•	
2. Should this n ingredients)?(IF NO, PROCE	Yes	No	organic foo	d" (95% or higher organic
3. Should this s				with organic ingredients" (50% or

## TAP REVIEWER COMMENT FORM for USDA/NOSB

Use this page or an equivalent to write down comments and summarize your evaluation regarding the data presented in the file of this potential National List material. Complete both sides of page. Attach additional sheets if you wish.

This file is due back to us by: Aug 29, 1995	
Name of Material: Baking Pawder, Al-free Reviewer Name: Reviewer	
Is this substance Synthetic or non-synthetic? Explain (if appropriate)  SYNTHETIC IF (SODIUM BICARBONATE AND CORNSTARCE CORNSTARCE FORM is the material made? (please answer here if our database ARE form is blank)  SODIUM BICARBONATE AND CORNSTARCH  NON-SYNTHE  ARE DRYBLENDED WITH MONOCALCIUM	
PHOSPHATE  This material should be added to the National List as:  Synthetic Allowed Prohibited Natural	
or, Non-synthetic (Allowed as an ingredient in organic food) Non-synthetic (Allowed as a processing aid for organic food) or, this material should not be on the National List	
Are there any use restrictions or limitations that should be placed on this material on the National List?  SELF-LIMITED NON-YEAST MAKED GOODS	
Please comment on the accuracy of the information in the file: $\mathcal{O}(\subset$	
Any additional comments? (attachments welcomed)	

## Please address the 7 criteria in the Organic Foods Production Act: (comment in those areas you feel are applicable)

(1) the potential of such substances for detrimental chemical interactions with other materials used in organic farming systems;

NO ISSUE

(2) the toxicity and mode of action of the substance and of its breakdown products or any contaminants, and their persistence and areas of concentration in the environment;

NO ISSUE

(3) the probability of environmental contamination during manufacture, use, misuse or disposal of such substance;

MINED PRECURSORS

(4) the effect of the substance on human health;

NO ISSUE

SAFE

(5) the effects of the substance on biological and chemical interactions in the agroecosystem, including the physiological effects of the substance on soil organisms (including the salt index and solubility of the soil), crops and livestock;

NO ISSUE

(6) the alternatives to using the substance in terms of practices or other available materials; and

NOT PRACTICAL IN SMALL SCALE APPLICATIONS
TO USE AMMONIUM CARBONATES. BAKING PONDER

IS CHEAP, AVAILABLE, EFFECTIVE

(7) its compatibility with a system of sustainable agriculture.

NO ISSUE

## TAP REVIEWER COMMENT FORM for USDA/NOSB

Use this page or an equivalent to write down comments and summarize your evaluation regarding the data presented in the file of this potential National List material. Complete both sides of page. Attach additional sheets if you wish.

This file is due back to us by: August 29, 1995
Name of Material: Baking Powder, Al-free
Reviewer Name: Pr Joseph Montecalus
Is this substance Synthetic or non-synthetic? Explain (if appropriate)
If synthetic, how is the material made? (please answer here if our database form is blank) Manufactural from sodium carbonate, water and co2) about 99.8% pure
This material should be added to the National List as:  Synthetic Allowed Prohibited Natural
or, Non-synthetic (Allowed as an ingredient in organic food) Non-synthetic (Allowed as a processing aid for organic food)
or, this material should not be on the National List
Are there any use restrictions or limitations that should be placed on this material on the National List?  lest than 5%
Please comment on the accuracy of the information in the file: $\mathcal{O}_{\gamma}(z)$
Any additional comments? (attachments welcomed)
- Additional uses - Antacias, topical treatment for surface burns, Le. Merk Endex p.8531 11th Ed.
Do you have a commercial interest in this material? Yes; No
Signature Date 7/31/95

## Please address the 7 criteria in the Organic Foods Production Act: (comment in those areas you feel are applicable)

(1)	the potential of such substances for detrimental chemical interactions with other materials used in organic farming systems;  None.
(2)	the toxicity and mode of action of the substance and of its breakdown products or any contaminants, and their persistence and areas of concentration in the environment;  Nonl.
(3)	the probability of environmental contamination during manufacture, use, misuse or disposal of such substance;
<b>(4</b> )	the effect of the substance on human health;  None
(5)	the effects of the substance on biological and chemical interactions in the agroecosystem, including the physiological effects of the substance on soil organisms (including the salt index and solubility of the soil), crops and livestock;
(6)	the alternatives to using the substance in terms of practices or other available materials; and work.

(7) its compatibility with a system of sustainable agriculture.
For selected application only.

#### **NOSB Materials Database**

## **Identification**

Common Name

Baking Powder, Al-free Chemical Name

Other Names

Code #: CAS

N/A

Code #: Other

N. L. Category

Synthetic Allowed

MSDS

Oyes no

## **Chemistry**

**Family** 

Composition

A blend of sodium bicarbonate, one or more acid ingredients (often calcium acid phosphate), and an

inert ingredient, usually starch.

**Properties** 

varies with compostition.

**How Made** 

Components are physically mixed in a batch mixer. See entries for sodium bicarbonate, cornstarch, and calcium phosphates. Blending is more complex than it appears because proportions and order of

mixing influence the qualities of the finished product.

## **Use/Action**

Type of Use

**Processing** 

Specific Use(s)

Leavening agent. Most large commercial bakeries use separate leavening comonents so baking powder

only accounts for 25% of chemical leavening usage.

Action

When mixture is heated with water, the acid reacts with the bicarbonate to release carbon dioxide. The

Combinations

#### **Status**

**OFPA** 

N. L. Restriction

EPA, FDA, etc

FDA-GRAS

Directions

Safety Guidelines

State Differences

Historical status

Internation | status

## **NOSB Materials Database**

## OFPA Criteria

2119(m)1: chemical interactions

Not Applicable

2119(m)2: toxicity & persistence

Not Applicable

2119(m)3: manufacture & disposal consequences

see under individual components.

2119(m)4: effect on human health

2119(m)5: agroecosystem biology

Not Applicable

2119(m)6: alternatives to substance

2119(m)7: Is it compatible?

#### **References**

Boyd Foster, Arrowhead Mills, 1994. written communication.