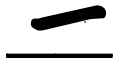


NOSB NATIONAL LIST FILE CHECKLIST

CROPS

MATERIAL NAME: #1 Amino acids



NOSB Database Form



References



MSDS (or equivalent)



TAP Reviews from: Brian Baker, Paul Sachs

**NOSB/NATIONAL LIST
COMMENT FORM
CROPS**

Material Name: #1 Amino acids

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

COMMENTS/QUESTIONS:

1. In my opinion, this material is:
_____ Synthetic _____ Non-synthetic.

2. This material should be placed on the proposed National List as:
_____ Prohibited Natural _____ Allowed Synthetic.

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 5, 1996

RECEIVED JUL 22 1996

Name of Material: Amino acids

Reviewer Name: Paul Sachso

Is this substance synthetic or non-synthetic? Explain (if appropriate)

Can be either. They are non-synthetic in their natural form.

If synthetic, how is the material made? (please answer here if our database form is blank)

This material should be added to the National list as:

Synthetic Allowed **Prohibited Natural, or**

Non-synthetic (This material does not belong on National List

(In their natural form)

Are there any use restrictions or limitations that should be placed on this material on the National List?

No

Please comment on the accuracy of the information in the file:

None provided

Any additional comments? (attachments welcomed)

Amino acids are the building blocks of protein. Protein is roughly synonymous with natural organic nitrogen. As protein is decomposed by micro-organisms, it is broken down into amino acids before being mineralized. This process can be duplicated by industry using natural enzymes. The process renders the original protein into a more rapidly available nitrogen. Synthesized amino acids can also be produced, however, I have never seen them available for use on agricultural crops as a fertilizer. There may, however, be a use and a market for synthetic amino acids that I am unaware of.

Do you have a commercial interest in this material Yes No

Signature Paul D. Sachso

Date 7/22/96

**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 that I know of

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

None that I know of

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

Unlikely, however, concentrations in any environment can change the ecology of the area

4.the effect of the substance on human health;o

Adverse effects due to normal exposure is unlikely.

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

Introduction of amino acids to the soil will, most likely, increase biological activity, improve crops, and should have little or no effect on livestock.

6.the alternatives to using the substance in terms of practices or other available materials; ando

I should think it would be economically impractical to use amino acids on a large scale unless they are locally available as a by-product of a manufacturing procedure, such as fish processing.

7.its compatibility with a system of sustainable agriculture.o

yes.

NOSB Materials Database

1

Identification

Common Name **Amino Acids**

Chemical Name

Other Names

Code #: CAS

Code #: Other

N. L. Category unknown

MSDS yes no

Chemistry

Family

Composition

Properties

How Made

Type of Use **Crops**

Use/Action

Specific Use(s)

Action

Combinations

Status

OFPA

N. L. Restriction

EPA, FDA, etc

Directions

Safety Guidelines

Historical status

International status

