NOSB NATIONAL LIST FILE CHECKLIST

PROCESSING

MATERIAL NAME: #8 Perlite

NOSB Database Form

References

MSDS (or equivalent)

___ FASP (FDA)

TAP Reviews from: Joe Montecalvo, James

Johnson

NOSB/NATIONAL LIST COMMENT FORM PROCESSING

Material Name: #8 Perlite							
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. Should this material be allowed in an "organic food" (95% or higher organic ingredients)? Yes No (IF NO, PROCEED TO QUESTION 3.)							
3. Should this substance be allowed in a "food made with organic ingredients" (50% or							

higher organic ingredients)? _____ Yes ____ No

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. 5, 1996
Name of Material: Derli	+e
	S A JOHNSON RECEIVED JUL 3 0 1996
Is this substance Synthetic or no appropriate)	on-synthetic? Explain (if
If synthetic, how is the material mad form is blank) yol can in each on (plantalise will fact reit. (Met to hardlese will fact reit. (Met to hardlese should be added to	e? (please answer here if our database coated to color afform. She he material to 7.0). It does not decay but well, D.B. 1993. Compact and soldiess may be the National List as:
Synthetic Allowed	Prohibited Natural
or, Non-synthetic (Allowed as a Non-synthetic (Allowed as a	· ·
or, this material should	not be on the National List
Are there any use restrictions of placed on this material on the	r limitations that should be National List?
170	•
Please comment on the accuracy of the	
Any additional comments? (attack	hments welcomed)
1/01/0	
Do you have a commercial interest in Signature	

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;
- (3) the probability of environmental contamination during manufacture, use, misuse or disposal of such substance;
- (4) the effect of the substance on human health;

eye inder a and pore ble organity. Vene

(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;

Reneficial to soller medium

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

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

yes or mining to ried the pathogone musery moderny.

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:	9.5,1996
Name of Material: Perlite	
Reviewer Name: JOE MontEcalvo	RECEIVED AUG 0 5 1996
Is this substance Synthetic or non-syr appropriate) Synthetic	•
If synthetic, how is the material made? (plea form is blank) (ontain: 45-75 Sio2 10-20% Alzo3 Componing S'10-H10	ise answer here if our database
This material should be added to the	National List as:
Synthetic Allowed	_ Prohibited Natural
or, Non-synthetic (Allowed as an ingred	lient in organic food)
Non-synthetic (Allowed as a process	·
or, this material should not b	e on the National List
Are there any use restrictions or limit placed on this material on the Nation	
Only ArA EillerAid	•
Please comment on the accuracy of the info	rmation in the file:
Any additional comments? (attachmen None	ts welcomed)
Do you have a commercial interest in this management of the state of t	naterial? Yes; <u>-/</u> No Date

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;

none

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

1512

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

SAMPAI POR CLAMANS SIOZ

(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;

pore

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

nove

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

NOSB Materials Database

<u>Identification</u>

ommon Name

Perlite

Chemical Name

Other Names

Code #: CAS

Code #: Other

N. L. Category

Non-agricultural

MSDS

o yes ⊚ no

Chemistry

Family

Composition

Properties

In natural state, perlite occurs as a dense, gray to brown, glassy volcanic rock consisting essentially of fused sodium potassium aluminum silicate plus 3% to 5% water. Powdered perlite is slightly soluble in water and sparingly soluble in dilute acids and alkalies.

How Made

Natural mineral is fractured and heated at high temperature (900 Degrees F.) so that it pops like popcorn, expanding to 20 times its original volume. Expanded material is crushed to yield a white nonhygroscopic powder.

Type of Use

Processing

<u>Use/Action</u>

Specific Use(s)

Filter aid in food processing.

Action

Combinations

<u>Status</u>

OFPA

N. L. Restriction EPA, FDA, etc

Directions

Safety Guidelines

Historical status

InternationI status

NOSB Materials Database OFPA Criteria

2119(m)1: chemical interactions

2119(m)2: toxicity & persistence

2119(m)3: manufacture & disposal consequences

2119(m)4: effect on human health

2119(m)5: agroecosystem biology

2119(m)6: alternatives to substance

2119(m)7: Is it compatible?

References

AU: Martyr,-R.F.

TI: New developments in the uses of graded horticultural perlite.

SO: Acta-Hortic. The Hague: International Society for Horticultural Science. May 1982. (126)

p. 143-146.

CN: DNAL 80-AC82

PY: 1982

MATERIAL SAFETY DATA SHEET STRUCTO-LITE PREMIXED PERLITE

SECTION I - Product Identification

MANUFACTURERS NAME: UNITED STATES GYPSUM COMPANY

EMERGENCY TEL. NO.: (312)321-4383

PREPARATION DATE: 04/22/86 INFORMATION TEL. NO.: () -

PRODUCT NUMBER: 00397
PRODUCT NAME: STRUCTO-LITE PREMIXED PERLITE

PRODUCT CLASS: GYPSUM PLASTER

M A T E RSECTION II - Hazardous ComponentsS H E E T

NONE

SECTION III - Physical Data

BOILING RANGE: NA
EVAPORATION RATE: NA
OTHER PROPERTIES:
HARDENS IN 1.5 HOURS
WHITE POWDER-LOW ODOR

VAPOUR DENSITY(AIR=1): NA VOLATILE VOLUME: NA WT/GAL: NA

SECTION IV - Fire and Explosion Hazard Data

SPECIAL PRECAUTIONS:
DEW POINT CONDITIONS-AVOID MOISTURE

SECTION V - Health Hazard Data

DISPOSAL PROCEDURE: SANITARY LANDFILL BY REGS OTHER PRECAUTIONS: NONE SECTION VI - Reactivity Data **RESPIRATORY PROTECTION:** NIOSH APP RESP IF ABOVE TLV **VENTILATION:** LOCAL IF ABOVE TLV SKIN PROTECTION: NONE **EYE PROTECTION:** SAFETY GLASSES OTHER PROTECTIVE EQUIPMENT: NONE HYGIENIC PRACTICES: NONE SECTION VII - Spill and Disposal Procedures FLAMMABILITY CLASSIFICATION: NONE FLASH POINT: NA UPPER - NA LOWER - NA FLAMMABLE LIMITS EXTINGUISHING MEDIA: UNUSUAL FIRE AND EXPLOSION HAZARDS: $N\Lambda$ SPECIAL FIRE-FIGHTING PROCEDURES: $N\Lambda$ SECTION VIII - Protective Equipment STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR **HAZARDOUS DECOMPOSITION PRODUCTS:** NΛ CONDITIONS TO AVOID: INCOMPATIBILITY (MATERIALS TO AVOID): NΛ

EFFECTS OF OVEREXPOSURE:

EYE IRRITANT-MAY DRY SKIN

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

UNKN

PRIMARY ROUTE(S) OF ENTRY: EYE/SKIN CONTACT; INHALE; INGEST EMERGENCY AND FIRST AID PROCEDURES:

EYE-FLUSH 15 MIN-SEE DR IF PERSISTS; SKIN-WASH W/SOAP/WATER; INHALE-FRESH AIR

INGEST-HARDENS WHEN WET-SEE DR

SECTION X - Transportation Data and Additional Information

N/A

(TM) and (R): Registered Trademarks $N/\Lambda = Not \ Applicable \ OR \ Not \ Available$

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