# NOSB NATIONAL LIST FILE CHECKLIST

## **PROCESSING**

**Montecalvo** 

MATERIAL NAME:	#21 Potassium Tartrate
	NOSB Database Form
	References
	MSDS (or equivalent)
	FASP (FDA)
	TAP Reviews from: Rich Theuer, Joe

### NOSB/NATIONAL LIST COMMENT FORM PROCESSING

Material Name: #21 Potassium Tartrate

Please use this page to write dow	n comments,	questions,	and your	anticipated	vote(s)
COMMENTS/QUESTIONS:					

1. In my opinion, this material i	is:		
Synthetic Non-syr			
2. Should this material be allow	ved in an "o	rganic food" (95% o	r higher organic
ingredients)? Yes	No		
(IF NO, PROCEED TO QUES	TION 3.)		
3. Should this substance be allo	wed in a "f	ood made with organ	nic ingredients" (50% or
higher organic ingredients)?	Ves	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.

Na	me of Material: <u>Potassium Tartrate</u>	· .
Re	riewer Name: R Theur	<del></del>
is app	this substance Synthetic or non-synthetic? Explain (if ropriate)	
	If synthetic, how is the material made? (please answer here if our datab	ase
RE OF	form is blank) DULLEE INFO. IF POTASSIUM ACID TARTRATE TARTAR) IS ISOLATED FROM WINE OR GRAPE	
17	WOULD BE HATHRAG NON-SYNTHETIC.	
Thi	material should be added to the National List as:	
/	Synthetic Allowed Prohibited Natural	
<i>'</i>	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 Li	st
pia	there any use restrictions or limitations that should be ed on this material on the National List?  PART OF ALUMINUM - FREE BAKING POWDER	
S	DIUM BICARBONATE AND CORNSTARCH CONSTITUTE RET	
Plea	se comment on the accuracy of the information in the file:	
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;
AL (BIO DETRADABLE
OK (BIODECRADARCE  POTASSUM IS A CRUP NUTRIENT
(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;  1 BEZIEVE THAT CREAM OF THETAR IS  1 BEZIEVE THAT CREAM OF THETAR IS
NATURALLY PRECIPITATED DURING WINE MAKING.
USING IT IS BETTER THAN DUMPING IT.
(4) the effect of the substance on human health;
POSSITIVE
POSTS POSTITUE TARTRATE CAN BE METABOLIZED
(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
Materials; and  FOR BAKING NON-YEAST BREADS, ETC. ALMINUM  LEAVENING AGENTS CAN BEUSED, EACH LEAVENING  LEAVENING AGENTS CAN BEUSED.
LEAVENING AGENTS CAN BE GIVE.  SYSTEM 15 SUPERIOR IN CERTAIN USES
SYSTEM /S SUPERIOR //O CERTAIN A SYSTEM (7) its compatibility with a system of sustainable agriculture.

## 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: Sept. 5, 1995
Name of Material: Potassium Tartrate
Reviewer Name: DR. JOE MONTECATOR
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) Extracted Erom tamarind pulp-about 10% view at tartaric Acid. Also can be synthemed by the hydroxilation of maleic acid - chiefy nearly all is by product of the wine inducty. Observed as the salt deposited to be tained during wine making. All Potamiun tartante is from by productor wine inductory.
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? $n \circ n$
Please comment on the accuracy of the information in the file: $\circ$ . $\ltimes$
Any additional comments? (attachments welcomed)  Occurs Naturally in Exuits, Also CA+Mg tarteate found in Exuits Asuell
Do you have a commercial interest in this material? Yes; No Signature Date 8/22/95

## 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;
- (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;

rune

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

  None
- (4) the effect of the substance on human health;

  Strong solutions ARE mildly (RRITAting, Astringent
- (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 p
- (7) its compatibility with a system of sustainable agriculture.

#### **NOSB Materials Database**

#### **Identification**

Common Name

**Potassium tartrate** 

**Chemical Name** 

Other Names

Soluble Tartar

Code #: CAS

N. L. Category

Synthetic Allowed

Code #: Other

MSDS

yes Ono

#### **Chemistry**

**Family** 

Composition

C<sub>4</sub>H<sub>4</sub>K<sub>2</sub>O<sub>6</sub>.

**Properties** 

Hemihydrate, white crystals or granular powder. Soluble in about .5 part water; almost insoluble in

alcohol. Aqueous solution is slightly alkaline to litmus.

**How Made** 

### **Use/Action**

Type of Use

**Processing** 

Specific Use(s)

Leavening agent, cathartic.

Action

**Combinations** 

#### **Status**

**OFPA** 

N. L. Restriction

EPA, FDA, etc

**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

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**

The Merck Index, 10th edition. 1983. Merck and Co., Inc., Rahway, NJ

MSDS for POTASSIUM TARTRATE, 1/2-HYDRATE
1 - PRODUCT IDENTIFICATION
PRODUCT NAME: POTASSIUM TARTRATE, 1/2-HYDRATE  FORMULA: KOCO(CHOH)2COOK 1/2H2O FORMULA WT: 235.28  CAS NO.: 00921-53-9 PRODUCT CODES: 3316  EFFECTIVE: 05/05/86 REVISION #01  PRECAUTIONARY LABELLING  BAKER SAF-T-DATA(TM) SYSTEM  HEALTH - 1 SLIGHT  FLAMMABILITY - 0 NONE  REACTIVITY - 0 NONE  CONTACT - 0 NONE  HAZARD RATINGS ARE 0 TO 4 (0 = NO HAZARD; 4 = EXTREME HAZARD).
LABORATORY PROTECTIVE EQUIPMENT: SAFETY GLASSES; LAB COAT  PRECAUTIONARY LABEL STATEMENTS  DURING USE AVOID CONTACT WITH EYES, SKIN, CLOTHING. WASH THOROUGHLY AFTER
HANDLING. WHEN NOT IN USE KEEP IN TIGHTLY CLOSED CONTAINER. SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)
2 - HAZARDOUS COMPONENTS
COMPONENT % CAS NO. NOT APPLICABLE
3 - PHYSICAL DATA
BOILING POINT: 200 C ( 392 F) VAPOR PRESSURE(MM HG): N/A MELTING POINT: N/A VAPOR DENSITY(AIR=1): N/A SPECIFIC GRAVITY: 1.98 EVAPORATION RATE: N/A (H2O=1) (BUTYL ACETATE=1) SOLUBILITY(H2O): APPRECIABLE (MORE THAN 10 %) % VOLATILES BY VOLUME: 0 APPEARANCE & ODOR: WHITE CRYSTALS.
4 - FIRE AND EXPLOSION HAZARD DATA
FLASH POINT (CLOSED CUP N/A FLAMMABLE LIMITS: UPPER - N/A % LOWER - N/A % FIRE EXTINGUISHING MEDIA USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE. SPECIAL FIRE-FIGHTING PROCEDURES FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE. TOXIC GASES PRODUCED: CARBON MONOXIDE, CARBON DIOXIDE
5 - HEALTH HAZARD DATA
CARCINOGENICITY: NTP: NO IARC: NO Z LIST: NO OSHA REG: NO

EFFECTS OF OVEREXPOSURE: NO EFFECTS OF OVEREXPOSURE WERE DOCUMENTED. TARGET ORGANS: NONE IDENTIFIED MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE IDENTIFIED ROUTES OF ENTRY: NONE INDICATED EMERGENCY AND FIRST AID PROCEDURES INGESTION: IF SWALLOWED AND THE PERSON IS CONSCIOUS, IMMEDIATELY GIVE LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION. INHALATION: IF A PERSON BREATHES IN LARGE AMOUNTS, MOVE THE EXPOSED PERSON TO FRESH AIR. GET MEDICAL ATTENTION. EYE CONTACT: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN CONTACT: IMMEDIATELY WASH WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES. 6 - REACTIVITY DATA STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR CONDITIONS TO AVOID: NONE DOCUMENTED DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE 7 - SPILL AND DISPOSAL PROCEDURES STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE WEAR SUITABLE PROTECTIVE CLOTHING. CAREFULLY SWEEP UP AND REMOVE. DISPOSAL PROCEDURE DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL ENVIRONMENTAL REGULATIONS. 8 - PROTECTIVE EQUIPMENT VENTILATION: USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE. RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, USE AN APPROPRIATE RESPIRATOR OR DUST MASK. EYE/SKIN PROTECTION: SAFETY GLASSES WITH SIDESHIELDS, PROPER GLOVES ARE RECOMMENDED. 9 - STORAGE AND HANDLING PRECAUTIONS SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE) SPECIAL PRECAUTIONS KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE AREA. 10 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION DOMESTIC (D.O.T.) PROPER SHIPPING NAME CHEMICALS, N.O.S. (NON-REGULATED) INTERNATIONAL (I.M.O.) PROPER SHIPPING NAME CHEMICALS, N.O.S. (NON-REGULATED)