

NOSB NATIONAL LIST FILE CHECKLIST

PROCESSING

MATERIAL NAME: #23 Sodium Tartrate



NOSB Database Form



References



MSDS (or equivalent)



FASP (FDA)



TAP Reviews from: Joe Montecalvo, Rich
Theuer

**NOSB/NATIONAL LIST
COMMENT FORM
PROCESSING**

Material Name: #23 Sodium Tartrate

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: Sept 5, 1995

Name of Material: Sodium Tartrate

Reviewer Name: DR. JOE MONTECALVO

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

Synthetic

If synthetic, how is the material made? (please answer here if our database form is blank) Probably obtained as the sodium salt of TARTARIC Acid during its EXTRACTION FROM GRAPES, SINCE GRAPES contain the highest level of TARTARIC Acid found in NATURE.

(this is hypothetical since I could not find ANY FURTHER info on this compound.)

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? NO

Please comment on the accuracy of the information in the file: O.K.

Any additional comments? (attachments welcomed) - NO

Do you have a commercial interest in this material? Yes; No

Signature

Dr. Joe Montecalvo

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;
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;
None
- (4) the effect of the substance on human health;
probably similar to K TARTRATE
- (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;
Probability low
- (6) the alternatives to using the substance in terms of practices or other available materials; and
None
- (7) its compatibility with a system of sustainable agriculture.
O.K.

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: Sodium Tartrate

Reviewer Name: R Theuer

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

SYNTHETIC

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

SODIUM PART MAKES IT SYNTHETIC (VIA SODIUM HYDROXIDE). I DON'T KNOW IF "TARTRATE" PART IS SYNTHETIC OR NOT.

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?

DON'T KNOW. SODIUM TARTRATE IS A SEQUESTANT, AS IS SODIUM CITRATE. IF TARTRATE PART IS SYNTHETIC, IT SHOULD NOT BE ALLOWED SINCE A "MORE NON-SYNTHETIC" CITRATE IS AVAILABLE. Please comment on the accuracy of the information in the file: INADEQUATE ON TARTRATE SOURCE + MANUFACTURE

Any additional comments? (attachments welcomed)

Do you have a commercial interest in this material? Yes; No

Signature R Theuer

Date 8/28/95

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;

NO PROBLEM

- (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;

DON'T KNOW

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

SAFE - NUTRITIOUS

- (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;

OK

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

SODIUM CITRATE

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

OK IF NON-SYNTHETIC

Identification

Common Name	Sodium tartrate	Chemical Name	
Other Names	Disodium tartrate		
Code #: CAS		Code #: Other	
N. L. Category	Non-agricultural	MSDS	<input checked="" type="radio"/> yes <input type="radio"/> no

Chemistry

Family	
Composition	$C_4H_4Na_2O_6 \cdot 2H_2O$
Properties	Transparent, colorless, odorless crystals. Soluble in water, insoluble in alcohol. Upon ignition, it emits the odor of burning sugar and leaves a residue that is alkaline and effervesces with acids.
How Made	

Use/Action

Type of Use	Processing
Specific Use(s)	Sequestrant.
Action	
Combinations	

Status

OFPA
N. L. Restriction
EPA, FDA, etc
Directions
Safety Guidelines
State Differences
Historical status
International status

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

M A T E R I A L S A F E T Y D A T A S H E E T
S O D I U M T A R T R A T E

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SECTION I - Product Identification

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PRODUCT NAME: SODIUM TARTRATE
FORMULA: $\text{NaO}_2\text{C}(\text{CHOH})_2\text{CO}_2\text{Na}\cdot 2\text{H}_2\text{O}$
FORMULA WT: 230.08
CAS NO.:
COMMON SYNONYMS: TARTARIC ACID DISODIUM SALT

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Precautionary Labeling

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N/A

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SECTION II - Hazardous Components

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NONE

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SECTION III - Physical Data

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BOILING POINT: N/A VAPOR PRESSURE @ 20C (MM HG): N/A
MELTING POINT: 120C * VAPOR DENSITY (AIR=1): N/A
SPECIFIC GRAVITY: 1.82 EVAPORATION RATE: N/A
(H₂O=1) (BUTYL ACETATE=1)
SOLUBILITY(H₂O): 25 PERCENT VOLATILES BY VOLUME: N/A
APPEARANCE & ODOR: WHITE CRYSTALLINE POWDER

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SECTION IV - Fire and Explosion Hazard Data

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FLASH POINT: UNAVA
FLAMMABLE LIMITS: UPPER - N/A % LOWER - UNAVA %
FIRE EXTINGUISHING MEDIA
WATER, FOAM, CO₂
SPECIAL FIRE-FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS
UNUSUAL FIRE AND EXPLOSION HAZARDS
NONE INDICATED

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SECTION V - Health Hazard Data

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THRESHOLD LIMIT VALUE (TLV/TWA): NONE ESTABLISHED
TOXICITY: ORL-RBT LDLO: 5290 MG/KG
EFFECTS OF OVEREXPOSURE
NO ILL EFFECTS KNOWN
EMERGENCY AND FIRST AID PROCEDURES
SKIN: WASH WITH SOAP AND WATER
EYES: FLUSH THOROUGHLY WITH WATER
INHALATION: REMOVE TO FRESH AIR
GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE

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SECTION VI - Reactivity Data

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STABILITY: STABLE
CONDITIONS TO AVOID: NONE INDICATED

INCOMPATIBLES: N/A
DECOMPOSITION PRODUCTS: COX

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SECTION VII - Spill and Disposal Procedures

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STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
TAKE UP & CONTAINERIZE FOR PROPER DISPOSAL

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SECTION VIII - Protective Equipment

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PROVIDE ADEQUATE GENERAL MECHANICAL VENTILATION
PROTECT EYES AND SKIN WITH SAFETY GOGGLES AND GLOVES
AVOID CONTACT WITH SKIN, EYES, AND MUCOUS MEMBRANES

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SECTION IX - Storage and Handling Precautions

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KEEP CONTAINER CLOSED WHEN NOT IN USE
STORE AT CONTROLLED ROOM TEMPERATURE
WASH THOROUGHLY AFTER HANDLING

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SECTION X - Transportation Data and Additional Information

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* MELTING POINT: LOSES 2H₂O AT 120C

(TM) and (R) : Registered Trademarks

N/A = Not Applicable OR Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available.

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