NOSB NATIONAL LIST
FILE CHECKLIST

CROPS

MATERIAL NAME:  #2 Ammonium Carbonate

☑️ NOSB Database Form

References

☑️ MSDS (or equivalent)

☑️ TAP Reviews from: John Clark, Helmut Riedl

Crops - October 1995
NOSB/NATIONAL LIST
COMMENT FORM
CROPS

Material Name: #2 Ammonium Carbonate

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.
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 15, 1995

Name of Material: Ammonium Carbonate
Reviewer Name: John Bell Clark, Ph. D.

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

Synthetic - cannot be reviewed without references.

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

Literature search:

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)

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

USE only for processing plants fly control.

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

No information; no references. This does not qualify as an OFPA review.

Any additional comments? (attachments welcomed)

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

Signature: John Bell Clark Date 9-13-85
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;

    ?

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

    ?

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

    N.A.

(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;

   Also attracts beneficial flies, possibly others, any insect interested in caprion.

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

   good organic environment, beneficial predator enhancement.

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

   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 15, 1995

Name of Material: Ammonium Carbonate
Reviewer Name: HELMUT RIEDEL

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

[ ] Synthetic
[ ] Non-synthetic

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)

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

Use only in trapping devices as an attractant

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

OK

Any additional comments? (attachments welcomed)

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

Signature: HELMUT RIEDEL
Date: 9/14/95
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;
   low due to specific use in traps

(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 problem

(3) the probability of environmental contamination during manufacture, use, misuse or disposal of such substance;
   not at quantities used in traps

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

(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;
   soluble in water, does not pose problem

(6) the alternatives to using the substance in terms of practices or other available materials; and
   other ammonia-releasing substances are available, or different trap stimuli (e.g. color)

(7) its compatibility with a system of sustainable agriculture.
   compatible
NOSB Materials Database

**Identification**

Common Name: Ammonium Carbonate

Chemical Name: Ammonium Carbonate

Other Names: Synthetic Allowed

Code #: CAS: 506-87-6

Code #: Other: MSDS yes

**Chemistry**

Family:  
Composition: $\text{NH}_4\text{HCO}_3$

Properties:

*How Made*

Reaction of ammonia and carbon dioxide. Ammonia is produced by the reaction of hydrogen and nitrogen under high temperature and pressure. Hydrogen in this use is synthetic. Carbon dioxide is bubbled through an ammonia solution.

**Use/Action**

Type of Use: Crops sticky²

Use(s): In mechanical traps for pest (fly) control.

Action: smell attracts flies.

**Status**

OFPA sticky²

N. L. Restriction: For use in mechanical traps.

EPA, FDA, etc

Safety Guidelines

Directions

Registration

Historical status

International status

State Differences
NOSB Materials Database

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Combinations

Status

OFPA
N. L. Restriction: For use in mechanical traps.

EPA, FDA, etc
Safety Guidelines
 Directions
Registration

Historical status
International status

State Differences
2119(m)1: chemical interactions

2119(m)2: toxicity & persistence

2119(m)3: manufacture & disposal consequences

2119(m)4: effect on human health
   No carcinogenicity. Contact with skin or eyes may cause irritation in concentrated form.

2119(m)5: agroecosystem biology

2119(m)6: alternatives to substance

2119(m)7: Is it compatible?

References
MSDS for AMMONIUM CARBONATE

1 - PRODUCT IDENTIFICATION

PRODUCT NAME: AMMONIUM CARBONATE
FORMULA: (NH₄)₂CO₃
CAS NO.: 506-87-6
COMMON SYNONYMS: CARBONIC ACID, AMMONIUM SALT, DIAMMONIUM CARBONATE
PRODUCT CODES: 0642, 0650, 0647, 0651
EFFECTIVE: 10/03/86

PRECAUTIONARY LABELLING

HAZARD RATINGS ARE 0 TO 4 (0 = NO HAZARD; 4 = EXTREME HAZARD).
LABORATORY PROTECTIVE EQUIPMENT: SAFETY GLASSES, LAB COAT
PRECAUTIONARY LABEL STATEMENTS

CAUTION MAY CAUSE IRITRATION MAY BE HARMFUL IF INHALED
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: N/A
MELTING POINT: N/A
SPECIFIC GRAVITY: 1.50
VAPOR PRESSURE (MM HG): N/A
VAPOR DENSITY (AIR=1): 2.7
EVAPORATION RATE: N/A
(SUBSTANCE=1) (BUTYL ACETATE=1)
SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)
SOLUBILITY (H₂O): APPRECIABLE (MORE THAN 10 %)
% VOLATILES BY VOLUME: 0
APPEARANCE & ODOR: COLORLESS WHITE POWDER WITH STRONG ODOR OF AMMONIA.

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: ORANGE (GENERAL STORAGE)

FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.
TOXIC GASES PRODUCED: AMMONIA, CARBON MONOXIDE, CARBON DIOXIDE

5 - HEALTH HAZARD DATA

TOXICITY: LD₅₀ (IV-MOUSE) (MG/KG) - 96
CARCINOGENICITY: NTP: NO  IARC: NO  Z LIST: NO  OSHA REG: NO
EFFECTS OF OVEREXPOSURE
DUST MAY IRRITATE NOSE AND THROAT.
DUST INHALATION MAY CAUSE TIGHTNESS AND PAIN IN CHEST, COUGHING, AND
DIFFICULTY IN BREATHING.
CONTACT WITH SKIN OR EYES MAY CAUSE IRRITATION.

TARGET ORGANS: EYES, SKIN
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE IDENTIFIED
ROUTES OF ENTRY: INHALATION, INGESTION, EYE CONTACT, SKIN CONTACT
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. STATION, EYE CONTACT. HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: HEATED STORAGE
INCOMPATIBLES: STRONG ACIDS, NITRATES, NICKEL, COPPER
DECOMPOSITION PRODUCTS: AMMONIA, CARBON MONOXIDE, CARBON DIOXID.

7 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
WEAR SUITABLE PROTECTIVE CLOTHING. CAREFULLY SWEET UP AND REMOVE.
DISPOSAL PROCEDURE
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL
ENVIRONMENTAL REGULATIONS.

8 - PROTECTIVE EQUIPMENT

VENTILATION: AVOID. USE ADEQUATE GENERAL OR LOCAL EXHAUST VENTILATION
TO KEEP FUME OR DUST LEVELS AS LOW AS POSSIBLE.
INCOMPATIBLES: STRONG ACIDS, NITRATES, NICKEL, COPPER
RESPIRATORY PROTECTION: NONE REQUIRED WHERE ADEQUATE VENTILATION
DECOMPOSITION PRODUCTS: CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS
HIGH, USE AN APPROPRIATE RESPIRATOR OR DUST MASK.
EYE/SKIN PROTECTION: SAFETY GLASSES WITH SIDESHIELDS, NITRILE GLOVES

9 - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)
SPECIAL PRECAUTIONS
STORE BELOW 30 C.
KEEP CONTAINER TIGHTLY CLOSED. SUITABLE FOR ANY GENERAL CHEMICAL STORAGE
AREA.

10 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)
PROPER SHIPPING NAME: AMMONIUM CARBONATE (AIR ONLY)
HAZARD CLASS: ORM-A
UN/NA: NA9084
LABELS: NONE
REPORTABLE QUANTITY: 5000 LBS.
Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

IDENTITY (As Used on Label and List)
Tangle-Trap Insect Trap Coating

Section I
Manufacturer's Name
The Tanglefoot Company
Emergency Telephone Number
(616) 459-4139
Address (Number, Street, City, State, and ZIP Code)
314 Straight Ave. S.W.
Telephone Number for Information
(616) 459-4139
Grand Rapids, MI 49504
Date Prepared
3/1/91
Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

<table>
<thead>
<tr>
<th>Hazardous Components (Specific Chemical Identity; Common Name(s))</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>Other Limits Recommended</th>
<th>% (optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td>This product is not hazardous as defined in 29CFR 1910.1200.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section III — Physical/Chemical Characteristics

<table>
<thead>
<tr>
<th>Boiling Point</th>
<th>Specific Gravity (H₂O = 1)</th>
<th>0.9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor Pressure (mm Hg.)</td>
<td>N/A</td>
<td>Melting Point</td>
</tr>
<tr>
<td>Neg.</td>
<td>167°F</td>
<td></td>
</tr>
<tr>
<td>Vapor Density (AIR = 1)</td>
<td>&gt; 1.0</td>
<td>Evaporation Rate</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Butyl Acetate = 1)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Neg.</td>
</tr>
</tbody>
</table>

Solubility in Water
Negligible

Appearance and Odor
Clear paste with mild odor.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)
350°F (pm)

Flammable Limits
Not Available

Extinguishing Media
Use water spray, dry chemical, foam.

Special Fire Fighting Procedures
Respiratory and eye protection is required.

Unusual Fire and Explosion Hazards
Decomposition under fire conditions produces fumes,
Section V — Reactivity Data

<table>
<thead>
<tr>
<th>Stability</th>
<th>Unstable</th>
<th>Conditions to Avoid</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stable</td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

Incompatibility (Materials to Avoid)

Strong oxidizing agents.

Hazardous Decomposition or Byproducts

Not determined.

<table>
<thead>
<tr>
<th>Hazardous Polymerization</th>
<th>May Occur</th>
<th>Conditions to Avoid</th>
<th>N/A</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Will Not Occur</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? No  Skin? yes  Ingestion? No

Health Hazards (Acute and Chronic)

Eye contact may be slightly irritating but does not injure eye tissue. No significant health hazards exist at ambient temperatures.

Carcinogenicity: NTP? No  IARC Monographs? No  OSHA Regulated? No

Signs and Symptoms of Exposure

N/A

Medical Conditions

Generally Aggravated by Exposure

None

Emergency and First Aid Procedures

If eye contact occurs wash with water until irritation subsides. If skin contact occurs, use baby oil or mineral spirits to remove residue and wash.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

For small spills implement clean-up procedures. Scrape up and contain with sand or other absorbent material. Remove ignition sources. Do not contaminate water or sewer systems.

Waste Disposal Method

Incinerate or dispose of in a landfill unless otherwise prohibited by applicable ordinances.

Procautions to Be Taken in Handling and Storing

None

Other Precautions

None

Section VIII — Control Measures

Respiratory Protection (Specify Type)

NIOSH/MSHA approved when vapor concentration is high.

Ventilation

Local Exhaust

If used in confined space Special None

Mechanical (General)

If necessary Other None

Protective Gloves

Use gloves when handling

Eye Protection

Safety glasses with side shield

Other Protective Clothing or Equipment

Heat resistant where product is heated

Work/Hygienic Practices

Usual

TRANSPORT AND STORAGE US D.O.T. CLASSIFICATION Non-regulated