

# 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**

**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:**

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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: 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~~ if it were on the NL  
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 9-13-95

**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;**

??

- (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 carrion.*

- (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

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This file is due back to us by: Sept 15, 1995

Name of Material: Ammonium Carbonate

Reviewer Name: HELMUT RIEDL

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)

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 Riedl  
DR. HELMUT RIEDL  
MID COLUMBIA EXPERIMENT STATION  
OREGON STATE UNIVERSITY  
3005 EXPERIMENT STATION DRIVE  
HOOD RIVER, OR 97031

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*

Identification

Common Name **Ammonium Carbonate** Chemical Name Ammonium Carbonate  
 Other Names  
 Code #: CAS 506-87-6 Code #: Other  
 N. L. Category Synthetic Allowed MSDS yes

Chemistry

Family  
 Composition  $NH_4HCO_3$

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 *sticky?*  
 Use(s) In mechanical traps for pest (fly) control.  
 ^

Action smell attracts flies.

Combinations

Status

OFPA  
 N. L. Restriction For use in mechanical traps.  
 ^ *sticky?*

EPA, FDA, etc

Safety Guidelines

Directions

Registration

State Differences

Historical status

International status

## Identification

**Common Name** **Ammonium Carbonate** **Chemical Name** Ammonium Carbonate  
**Other Names**  
**Code #: CAS** 506-87-6 **Code #: Other**  
**N. L. Category** Synthetic Allowed **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

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

**Action** smell attracts flies.

### Combinations

## Status

### OFPA

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

**EPA, FDA, etc**

### Safety Guidelines

### Directions

### Registration

### State Differences

**Historical status**

**International status**



**OEPA Criteria**

**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**

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# MSDS for AMMONIUM CARBONATE

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## 1 - PRODUCT IDENTIFICATION

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PRODUCT NAME: AMMONIUM CARBONATE  
FORMULA: (NH<sub>4</sub>)<sub>2</sub>CO<sub>3</sub> FORMULA WT: 96.09  
CAS NO.: 506-87-6 NIOSH/RTECS NO.: BP1925000  
COMMON SYNONYMS: CARBONIC ACID, AMMONIUM SALT; DIAMMONIUM CARBONATE  
PRODUCT CODES: 0642,0650,0647,0651  
EFFECTIVE: 10/03/86 REVISION #03

PRECAUTIONARY LABELLING  
BAKER SAF-T-DATA(TM) SYSTEM  
HEALTH - 1 SLIGHT  
FLAMMABILITY - 0 NONE  
REACTIVITY - 1 SLIGHT  
CONTACT - 1 SLIGHT

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 IRRITATION 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)

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## 2 - HAZARDOUS COMPONENTS

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COMPONENT	%	CAS NO.
NOT APPLICABLE		

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## 3 - PHYSICAL DATA

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BOILING POINT: N/A VAPOR PRESSURE(MM HG): N/A  
MELTING POINT: N/A VAPOR DENSITY(AIR=1): 2.7  
SPECIFIC GRAVITY: 1.50 EVAPORATION RATE: N/A  
(H<sub>2</sub>O=1) (BUTYL ACETATE=1)  
SAF-T-DATA(TM) STORAGE COLOR CODE: ORANGE (GENERAL STORAGE)  
SOLUBILITY(H<sub>2</sub>O): APPRECIABLE (MORE THAN 10 %) % VOLATILES BY VOLUME: 0  
APPEARANCE & ODOR: COLORLESS WHITE POWDER WITH STRONG ODOR OF AMMONIA.

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## 4 - FIRE AND EXPLOSION HAZARD DATA

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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 PROCEDURESE: 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

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## 5 - HEALTH HAZARD DATA

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TOXICITY: LD<sub>50</sub> (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. (GENERAL STORAGE)  
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.

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#### 6 - REACTIVITY DATA

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STABILITY: STABLE, EYE CONTACT HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
CONDITIONS TO AVOID: AID HEATEDURES  
INCOMPATIBLES: STRONG ACIDS, NITRATES, NICKEL, COPPER  
DECOMPOSITION PRODUCTS: AMMONIA, CARBON MONOXIDE, CARBON DIOXID.

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#### 7 - SPILL AND DISPOSAL PROCEDURES

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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.

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#### 8 - PROTECTIVE EQUIPMENT

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VENTILATION: AVOID: AID 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 A QUATE 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

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#### 9 - STORAGE AND HANDLING PRECAUTIONS

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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.

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#### 10 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

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DOMESTIC (D.O.T.)  
PROPER SHIPPING NAME AMMONIUM CARBONATE (AIR ONLY)  
HAZARD CLASS----- ORM-A  
UN/NA NA9084  
LABELS NONE  
REPORTABLE QUANTITY 5000 LBS.

Hazard Classification  
 Health 0  
 Fire 1  
 Reactivity 0

**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.

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

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

*Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.*

**Section I**

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

**Section II — Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
This product is not hazardous as defined in 29CFR 1910.1200.				

**Section III — Physical/Chemical Characteristics**

Boiling Point	N/A	Specific Gravity (H <sub>2</sub> O = 1)	0.9
Vapor Pressure (mm Hg.)	Neg.	Melting Point	167° F
Vapor Density (AIR = 1)	> 1.0	Evaporation Rate (Butyl Acetate = 1)	Neg.
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	LEL	N/A	UEL	N/A
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**

Stability	Unstable		Conditions to Avoid N/A
	Stable	X	

Incompatibility (Materials to Avoid) Strong oxidizing agents.

Hazardous Decomposition or Byproducts Not determined.

Hazardous Polymerization	May Occur		Conditions to Avoid N/A
	Will Not Occur	X	

**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** thoroughly with soap and water.

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.

Precautions to Be Taken in Handling and Storing  
None

Other Precautions  
None

**Section VIII — Control Measures**

Respiratory Protection (Specify Type)  
NIOSH/MSHA approved where 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

