

AMA-9  
(Left Panel)

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Causes (moderate) eye injury (irritation). Avoid contact with eyes or clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds or public water unless in accordance with an NPDES Permit. For guidance contact your regional office of the EPA.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

STORAGE: To avoid freezing, store above 32°F. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or Local procedures under The Resource Conservation and Recovery Act.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and offer for recycling or reconditioning, or disposal of in a sanitary landfill, or by other approved state and local procedures.

**ACCEPTED**  
with COMMENTS  
In EPA Letter Dated:

**JAN 18 1983**

Under the Fungicide, Insecticide,  
Fumigant, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
4386-23

AMA-9  
(Center Panel)

VININGS CHEMICAL COMPANY  
Atlanta, Georgia

AMA-9  
(Antimicrobial Agent)

Active Ingredients	9.0%
Sodium dimethyl dithiocarbamate	4.5%
Nabam (Disodium ethylene bisdithiocarbamate)	4.5%
Inert Ingredients	91.0%
TOTAL	100.00%

KEEP OUT OF REACH OF CHILDREN

CAUTION

Causes (moderate) eye injury (irritation). Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water, get medical attention if irritation persists.

EPA Registration No.: 9386 - EPA Establishment No.: 9386-GA-1  
Manufactured By: Vinings Chemical Company  
Marietta, Georgia 30066

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JAN 18 1966

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
9386-23

AMA-9  
(Right Panel)

DIRECTIONS FOR USE  
GENERAL CLASSIFICATION

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

**INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS:**  
Dosages for industrial recirculating water cooling towers or evaporative condensers will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AMA-9 to the cleaned system or when growth is first noticed according to the following schedule:

**INITIAL DOSE:** Apply 43.5 ounces of product per each 1000 gallons of water in the system (400 ppm). This dose may be repeated once, twice or three times weekly or as required to control the growth of slime forming organisms.

**SUBSEQUENT DOSE:** When microbial control is evident add 7.3-14.5 fluid ounces of AMA-9 per 1000 gallons of water (67-133 ppm) in the system every three days or as needed.

CANE SUGAR MILLS

AMA-9 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend upon mill design. Frequently the dosage will be split between the crusher juice and juice from the last mill. The best addition point is to the juice which is circulated back to the crusher from the first mill. Do not add this product to the maceration water.

AMA-9 should be fed continuously at the rate of 33.3-66.7 parts of product per million parts of cane ground per day. 33.3 ppm of product is the standard dosage. This may be raised up to a maximum of 66.7 ppm, if necessary. Conditions warranting, some increase would be warranted when grinding cane damaged through freezing, poor weather or delays between cutting and grinding.

BEET SUGAR MILLS

AMA-9 should be feed directly into the raw juice during sugar extraction of beets to keep the equipment free of bacterial slime deposits. It is to be used at the rate of 33.3-66.7 ppm of raw beets sliced and feed continuously into the pulp press water tank with a metering pump. The maximum rate to be feed is 66.7 ppm.

DRILLING FLUIDS

AMA-9 is a highly effective microbiocide for use in controlling the growth of fungi and bacteria found in water based drilling muds. It is especially useful in muds containing starches, xanthanate gums and wood sugars. The uncontrolled growth of these fungi and bacteria can cause increased corrosion, undesirable odors, and degradation of the drilling mud, especially fluids loss properties. AMA-9 is used at the rate of 3.7 to 18.7 gallons per 100 barrels of mud (0.067% to 0.33%). It may be used directly from the shipping container or prediluted with water. It can be added through the mud hopper or directly to the pump suction.

8.7 lbs/gal.  
Vinings Chemical Company  
Atlanta, Georgia

ACCEPTED  
with COMMENTS  
to EPA Label Dated:

JAN 18 1983

Under the Federal Insecticide, Fungicide, and Rodenticide Act  
Registration No. 9386-23  
EPA Reg. No. 3

# VININGS

## TECHNICAL DATA

AMA-9  
(Antimicrobial Agent)

AMA-9 is a highly effective and fungicide and bactericide for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, evaporative condensers, sugar beet and cane mills, and drilling muds.

### COMPOSITION:

Active Ingredients:	
Sodium dimethyl dithiocarbamate	4.5%
Nabam(disodium ethylene bisdithiocarbamate)	4.5%
Inert Ingredients:	91.0%
TOTAL	100.00%

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

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### TYPICAL PHYSICAL PROPERTIES:

Physical Form	Light to amber Liquid
Specific Gravity	1.04 @ 25°C
Solubility	Complete in Water
Flash Point	Over 200°F
pH	11.6
Density	8.7 lbs/gal

Fungicide, Bactericide,  
Foliaricide, and Root-Killer. Act  
as directed for the pesticide  
registered under EPA Reg. No.

9386-23

### DIRECTIONS FOR USE:

#### INDUSTRIAL RECIRCULATING WATER COOLING TOWERS AND EVAPORATIVE CONDENSERS:

Dosages for industrial recirculating water cooling towers or evaporative condensers will depend on the condition of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AMA-9 to the cleaned system or when growth is first noticed according to the following schedule:

**INITIAL DOSE:** Apply 43.5 ounces of product per each 1000 gallons of water in the system (400 ppm). This dose may be repeated once, twice or three times weekly or as required to control the growth of slime forming organisms.

**SUBSEQUENT DOSE:** When microbial control is evident add 7.3-14.5 fluid ounces of AMA-9 per 1000 gallons of water (67-133 ppm) in the system every three days or as needed.

#### CANE SUGAR MILLS:

AMA-9 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend upon mill design. Frequently the dosage will be split between the crusher juice and juice from the last mill. The best addition point is to the juice which is circulated back to the crusher from the first mill. Do not add this product to the maceration water.

AMA-9 should be fed continuously at the rate of 33.3-66.7 parts of product per million parts of cane ground per day. 33.3 ppm of product is the standard dosage. This may be raised up to a maximum of 66.7 ppm, if necessary. Conditions warranting, some increase would be warranted when grinding cane damaged through freezing, poor weather or delays between cutting and grinding. See Feeding Directions which follow.

Proper feed of AMA-9 is best obtained through the use of a chemical feed pump such as the adjustable proportioning type; the variable speed, positive displacement type; or the reciprocating type. The required dosage will depend on the average daily rate of cane ground. Refer to the Composite Table I. for the proper dosage in milliliters and ounces of AMA-9 to be used per minute.

Do not exceed feed rate of 15 gallons (133.7 lbs.) of product per 1000 short tons of cane ground per 24 hours.

The use of AMA-9 does not replace good housekeeping. This should include regular cleaning at least once per shift. Regular hosing of mills bagacillo conveyors, and screens with hot water and steam is essential for maintaining efficient control of microbiological slime and sucrose losses.

**BEET SUGAR MILLS:**

AMA-9 should be feed directly into the raw juice during sugar extraction of beets to keep the equipment free of bacterial slime deposits. It is to be used at the rate of 33.3-66.7 ppm of raw beets sliced and feed continuously into the pulp press water tank with a metering pump. The maximum rate to be feed is 66.7 ppm. Refer to the Composite Table I for the proper dosage and milliliters and ounces of AMA-9 to be used per minute.

**COMPOSITE TABLE I.**

<u>Short Tons of Cane Ground or Raw Beets Sliced per Day</u>	<u>Rate of Feed of AMA-9</u>			
	<u>33.3 ppm</u>		<u>66.7 ppm</u>	
	<u>MI/Min.</u>	<u>Oz/Min.</u>	<u>MI/Min.</u>	<u>Oz/Min.</u>
1000	18.3	0.620	36.7	1.240
2000	36.7	1.240	73.3	2.480
3000	55.0	1.860	109.9	3.716
4000	73.3	2.480	146.7	4.956
5000	91.7	3.100	183.3	6.196
6000	110.0	3.716	220.0	7.436
7000	128.3	4.336	256.6	8.676
8000	146.7	4.956	293.3	9.912
9000	165.0	5.576	330.0	11.152
10000	183.3	6.196	366.6	12.392

# VININGS

AMA-9  
Page: 3

This product complies with Title 21 Code of Federal Regulations, Section 173.320 (Chemicals Used for the Control of Microorganisms in Cane and Beet Sugar Mills) of the Food Additive Regulations and they may be used under the conditions specified in the regulations.

## DRILLING FLUIDS:

AMA-9 is a highly effective microbiocide for use in controlling the growth of fungi and bacteria found in water based drilling muds. It is especially useful in muds containing starches, xanthanate gums and wood sugars. The uncontrolled growth of these fungi and bacteria can cause increased corrosion, undesirable odors, and degradation of the drilling mud, especially fluids lose properties. AMA-9 is used at the rate of 3.7 to 18.7 gallons per 100 barrels of mud (0.067% to 0.33%). It may be used directly from the shipping container or prediluted with water. It can be added through the mud hopper or directly to the pump suction.

## TECHNICAL ASSISTANCE:

The service of our engineers is available at any time upon request to assist in solving problems pertaining to the use of Vinings' products. Information concerning this service is available from your regular sales representative or may be obtained by writing to Vinings Chemical Company, Atlanta, Georgia 30339.

## STORAGE AND DISPOSAL:

Do not contaminate water, food or feed by storage or disposal.

STORAGE: To avoid freezing, store above 32°F. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinsate that cannot be used according to label instructions must be disposed of according to Federal, State or Local procedures under The Resource Conservation and Recovery Act.

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## PRECAUTIONARY STATEMENTS:

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Causes (moderate) eye injury (irritation). Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

JAN 18 1983

This product is a pesticide,  
EPA Reg. No. 100-100000-1  
as a fungicide, bactericide,  
registered under EPA Reg. No. 100-100000-1

9386-23

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish. Do not discharge into lakes, streams, ponds or public water unless in accordance with an NPDES Permit. For guidance contact your regional office of the EPA.

**SHIPPING POINT:**

Marietta, Ga.

**PACKAGING:**

55 gallon drums  
350 gallon porta bins  
Bulk

**WEIGHT PER GALLON:**

8.7 pounds per gallon

VININGS CHEMICAL  
COMPANY  
2555 Cumberland  
Parkway, Suite  
200  
Atlanta, Ga. 30339

<b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>OFFICE OF PESTICIDES PROGRAMS</b> <b>REGISTRATION DIVISION (4H-567)</b> <b>WASHINGTON, D.C. 20461</b>	EPA REGISTRATION NO.	DATE OF ISSUANCE
	TERM OF ISSUANCE	JAN 18 1983
<b>NOTICE OF PESTICIDE:</b> <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide,  and Rodenticide Act, as amended)</i>	NAME OF PESTICIDE PRODUCT	
	NAME AND ADDRESS OF REGISTRANT (Include ZIP code)	
<p><b>NOTE:</b> Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p> <p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an endorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p>		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE



**Warning:** Causes eye irritation. Do not get in eyes.  
Wear goggles or face shield when handling.  
Harmful if swallowed. Wash thoroughly with  
soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

If in eyes. Flush with plenty of water.  
Get medical attention if irritation persists.

3. Submit five (5) copies of your final printed labeling before you  
release the product for shipment. Refer to the A-79 Enclosure for a further  
description of final printed labeling.

If these conditions are not complied with, the registration will be  
subject to cancellation in accordance with FIFRA sec. 6(e). Your release for  
shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.



John H. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767C)

Enclosures