

**VININGS**  
*Chemical Company*

ATLANTA, GEORGIA

**AMA 30**

ACTIVE INGREDIENTS .....	30%
Sodium Dimethyldithiocarbamate .....	15%
Nabam (Disodium ethylene bisdithiocarbamate) .....	15%
INERT INGREDIENTS .....	70%

EPA REGISTRATION NO. 9386-11  
EPA ESTABLISHMENT NO. 31910-TN-1

Do not reuse empty containers. Container should be destroyed by perforation or crushing. Discard container in a safe place.

**Sold By**

**VININGS CHEMICAL COMPANY**

ATLANTA, GEORGIA 30339

AMA-30 is a highly effective fungicide and bactericide for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, air washers, evaporative condensers, pulp and papermills and cane sugar mills. For use-directions refer to the Technical Bulletin for AMA-30.

Federal law requires that all products incorporating AMA-30, whether repackaged or formulated, must be registered with the Environmental Protection Agency.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment, or disposal of wastes.

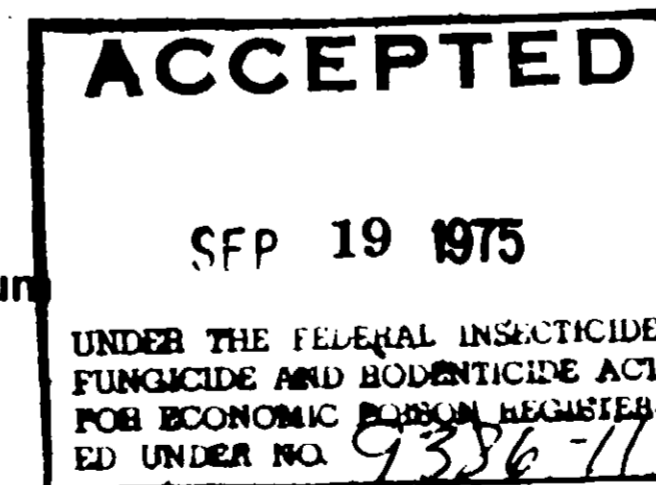
**WARNING:  
KEEP OUT OF THE REACH OF CHILDREN**

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

Contents: Liquid  
See Markings on Top of Drum  
for Net Weight



**VININGS CHEMICAL COMPANY**

ATLANTA, GEORGIA 30339

AMA-30 is an aqueous solution of sodium dithiocarbamates which has the following composition on an active basis:

sodium dimethyldithiocarbamate	15%
disodium ethylene bisdithiocarbamate	15%

AMA-30 is manufactured under carefully controlled conditions so as to minimize the formation of impurities which might affect its color or clarity.

Specifications

Total solids	30.5 ± 1.0%
Purity (active solids)	30.0 ± 0.5%
pH	11.5 ± 1.0
Density	1.150 - 1.200
Color	Yellow-green to green
Transmittance	95% minimum
Odor	H <sub>2</sub> S odor

**ACCEPTED**

SEP 19 1975

UNDER THE FEDERAL INSECTICIDE  
FUNGICIDE AND RODENTICIDE ACT  
FOR ECONOMIC POISON REGISTERED  
ED UNDER NO. 7386-11

AMA-30 has FDA clearances for the active ingredients separately and in combination in the following Code of Federal Regulations: 121.1155 - use in cane and beet sugar processing, 121.2505 - slimicides in paper and paperboard manufacture.

This product is toxic to fish. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified in this technical bulletin.

WARNING:

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If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

Do not reuse empty containers. Container should be destroyed by perforation or crushing. Discard container in a safe place.

AMA-30 is a highly effective fungicide and bactericide for use in controlling the growth of bacteria and fungi found in industrial recirculating water cooling towers, air washers, evaporative condensers, pulp mills, paper mills and cane sugar mills. AMA-30 is not recommended for potable water or where contamination of potable water can occur.

TYPICAL PROPERTIES

Active Ingredients . . . . .	30.0 ± 0.5%
Sodium dimethyldithiocarbamate . . . . .	15.0 ± 0.5%
Naban (disodium ethylene bisdithiocarbamate) . . . . .	15.0 ± 0.5%
Inert Ingredients . . . . .	70.0 ± 0.5%
pH. . . . .	11.5 ± 1.0
Density. . . . .	1.15 ± 1.20
Color. . . . .	Yellow green to green
Transmittance . . . . .	95% minimum
Odor . . . . .	Hydrogen Sulfide
Weight per U.S. gallon . . . . .	9.8 pounds
Storage . . . . .	Avoid extreme heat or freezing

Handling:

AMA-30 causes eye and skin irritation. Do not get in eyes, on skin or clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed. Avoid contamination of food.

In case of contact, immediately flush eyes or skin with plenty of water for at least fifteen minutes. For eyes call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are unavailable, drink large quantities of water. Do not induce vomiting. Call a physician immediately.

The following is a summary of dosage and feeding recommendations for each use of AMA-30 when repackaged as bactericide/fungicide.

#### 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-30 to the cleaned system or when growth is first noted according to the following schedule:

Initial Dose: Apply 13.06 ounces of AMA-30 per each 1000 gallons of water in the system (120 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 2.18 to 4.36 fluid ounces of AMA-30 per 1000 gallons of water (20-40 ppm) in the system every three days or as needed.

#### AIR WASHERS

In treating air washer systems pre-cleaned by introducing a suitable detergent solution into the system and allow air washer to run with fan off for two hours. Flush. Check all nozzles and manually clean those that are plugged. Add product as specified under dosages for cooling towers.

#### Feeding

AMA-30 may be fed directly from the drum or diluted with water and fed by any suitable feed system. AMA-30 should be dosed directly into the sump or basin or any other location where good distribution can be assured.

#### PAPER MILLS

Dosage will vary from 0.1 to 2.0 pounds (0.04 to 0.81 quarts) of AMA-30 per ton of furnished paper depending on the type of stock, complexity of the system, quality of raw water, and type and degree of contamination.

(continued)

Feeding

AMA-30 may be drip fed continuously from the drum or fed by suitable chemical pumps such as adjustable proportioning types; variable speed, positive displacement type; or by the reciprocating type. This product should be fed as early as possible in the system at such points including the hydropulper, machine chest or broke system.

AMA-30 may be used to control slime on machines which can make paper and paperboard for use in food packaging. AMA-30 complies with Title 21 Code of Federal Regulations section 121.2505 of the Food Additive Regulations and may be used under conditions specified in the regulations.

CANE SUGAR MILLS

AMA-30 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 on mill design. Frequently the dosage will be split between the crusher juice and juice from the last mill. The best addition point is to juice which is circulated back to the crusher to first mill. Do not add this product to the maceration water.

AMA-30 should be fed continuously at the rate of 10 - 20 parts of product per million parts of cane ground per day. 10 ppm of product is the standard dosage. This may be raised up to a maximum of 20 ppm, if necessary. Conditions warranting some increase would be grinding of cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

Proper feed of AMA-30 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. The following chart shows the proper dosage in milliliters and ounces of AMA-30 to be used per minute.

V I N I N G S

T E C H N I C A L D A T A

AMA - 30

Short Tons of Cane Ground per Day	Rate of Feed			
	10 ppm		20 ppm	
	ml/min	oz/min	ml/min	oz/min
1,000	5.4	0.187	10.7	0.374
2,000	10.7	0.374	21.4	0.746
3,000	16.1	0.561	32.2	1.122
4,000	21.4	0.748	42.9	1.496
5,000	26.8	0.935	53.7	1.870
6,000	32.2	1.122	64.4	2.244
7,000	37.5	1.309	75.0	2.618
8,000	42.9	1.496	85.8	2.992
9,000	48.3	1.683	96.6	3.366
10,000	53.7	1.870	107.4	3.740

Do not exceed feed rate of 4 gallons (39.2 pounds) of product per 1000 short tons of cane ground per twenty-four hours.

These dosages apply to cane sugar mills only. Do not use this product in beet sugar mills.

The use of AMA-30 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 micro-biological slime and sucrose losses.

This product complies with Title 21 Code of Federal Regulations Section 121.1155 (Chemicals used for the Control of Microorganisms in Cane-Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the regulations. Do not use this product in beet sugar mills.