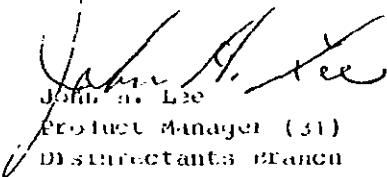


US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460	EPA REGISTRATION 9386-28	DATE OF ISSUANCE MAY 21 1986
	TERM OF ISSUANCE	
	NAME OF PESTICIDE PRODUCT MA-20	
NOTICE OF PESTICIDE: <input type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)		
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<input type="checkbox"/> VICTOR CHEMICAL COMPANY 1000 EAST 10TH STREET ALBANY, GA 31701		
<input type="checkbox"/>		
NOTE: 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.		
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.		
A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.		
Registration is in no way to be construed as an indorsement 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.		
This product is conditionally registered in accordance with FIFRA section 5(c)(7)(A) provided that you:		
1. Submit and/or file all data required for registration/reregistration of your product under FIFRA section 5(c)(7) when the Agency requires all registrants of similar products to submit such data.		
2. Make the labeling change listed above before you release the product for sale;		
- with the phrase "EPA Registration No. 9386-28."		
3. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 5(c). Your release for sale of the product constitutes acceptance of these conditions.		
A true copy of the label is enclosed for your records.		
<div style="text-align: center;">             John A. Lee            Product Manager (31)            Disinfectants Branch            Registration Division (TS-767)         </div>		
ENCLOSURE		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE

# VININGS *Chemical Company*

ATLANTA, GEORGIA

# AMA-20

(Antimicrobial Agent)

(FOR INDUSTRIAL USE ONLY)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 21 1986

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

9386-28

ACTIVE INGREDIENT:		
	Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione .....	20%
INERT INGREDIENTS: .....		80%
		Total 100%

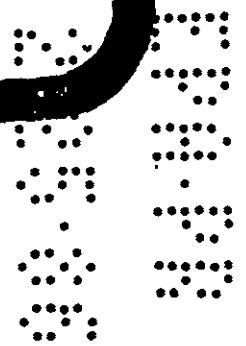
KEEP OUT OF REACH OF CHILDREN

DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REGISTRATION NO. 9386- EPA ESTABLISHMENT NO. 9386-GA-1

Manufactured By  
**VININGS CHEMICAL COMPANY**  
MARIETTA, GEORGIA 30066



PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes severe eye damage and irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed or absorbed through skin. Avoid contamination of Food.

STATEMENT OF PRACTICAL TREATMENT

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. Avoid alcohol. Call a physician immediately.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

PHYSICAL OR CHEMICAL HAZARDS

DO NOT USE, SPILL, POUR OR STORE NEAR OPEN FLAME.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not apply (or use) in estuarine oil fields where drilling fluids (muds) are discharged in the surface water. Do not discharge treated effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment authority. For guidance contact your State water Board or Regional Office of the Environmental Protection Agency.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL

STORAGE: Protect from freezing and temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect liquid with absorbant material and dispose of in accordance with local, state and federal pesticide disposal regulations.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

9.7 lbs. per gallon

VININGS CHEMICAL COMPANY

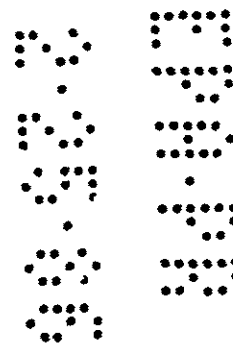
ATLANTA, GEORGIA 30339

ACCEPTED  
with COMMENTS  
by EPA dated:

MAY 21 1986

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

9386-28



# DIRECTIONS FOR USE:

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

**PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:** AMA-20 is added at a point in the system (raw stock chest, beater and/or roller chest or machine chest - wirepit) where it will be uniformly mixed. Application may be continuous or intermittent for a certain number of hours/day or per shift, depending upon system characteristics. Add 5 to 20 fluid ounces of AMA-20 per ton of paper produced.

**INTERMITTENT FEED METHOD:** Apply 12 to 20 fluid ounces of AMA-20 per ton (dry basis) of pulp or paper for 2 hours every 8 hours. Badly fouled process systems must be cleaned before initial treatment.

**CONTINUOUS FEED METHOD:** Apply 5 to 15 fluid ounces of AMA-20 per ton (dry basis) of pulp or paper produced on a continuous basis. Badly fouled process systems must be cleaned before initial treatment.

**RECIRCULATING COOLING WATER SYSTEMS: FOR THE CONTROL OF ALGAE, FUNGI, AND SLIME-FORMING BACTERIA:** Dosages for industrial recirculating cooling water systems will depend on the conditions of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AMA-20 to the cleaned system or when growth is first noticed according to the following schedule.

**INITIAL DOSAGE:** Apply 3.25-6.5 fluid ounces (30-60 ppm) of AMA-20 per each 1000 gallons of water in the system. This dose may be as a continuous treatment or applied once, twice, or three times weekly or as required to control the growth of slime-forming organisms.

**SUBSEQUENT DOSAGE:** When microbial control is evident add 0.5-3.25 fluid ounces (5-30 ppm) of AMA-20 per 1000 gallons of water in the system as a continuous treatment daily or every 3 days or as required to maintain control.

**OILFIELD DRILLING MUDS AND WORKOVER OR COMPLETION FLUIDS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:** Determine the total volume of the circulating system. Calculate the number of gallons of Vinings AMA-20 needed to produce a concentration of 2,080 ppm (0.73 lb/bbl) of Vinings AMA-20 in the drilling mud circulating system. For example, 75 gallons of Vinings AMA-20 per 1000 barrels of drilling fluid will produce the proper concentration.

For best results add Vinings AMA-20 in a thin stream to the mud pit while the drilling fluid is circulating.

As the total volume increases, due to greater well depth, add additional Vinings AMA-20 to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the AMA-20 may be prescribed.

**OILFIELD WATER TREATMENT AND WATER FLOODS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:** Calculate the total volume of water to be treated. Using this volume, calculate the number of gallons of Vinings AMA-20 needed to produce concentration of approximately 2500 ppm Vinings AMA-20. For example, 2.1 gallons of Vinings AMA-20 per each 1000 gallons of total volume will produce this dilution.

350 ppm Vinings AMA-20, added each week, is recommended to maintain bacterial control. This may be accomplished by adding 0.30 gallons of Vinings AMA-20 to each 1000 gallons of total volume. Because of the wide variation in waters found in the oil field, greater or lesser amounts of AMA-20 may be required in a particular location.

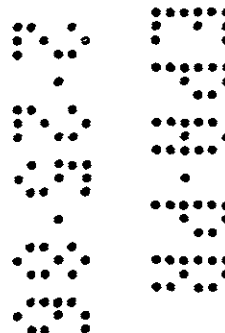
**FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS:** For preservation of slurries and high viscosity suspensions, AMA-20 should be added at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. Add AMA-20 at use levels of 0.04-0.1%, by weight, based on the total formulation in slurries of starch, clay, calcium carbonate or titanium dioxide; paper coatings; high viscosity suspensions (e.g. polymers, silica-polymer combinations); polyvinyl alcohol/polyvinyl acetate based adhesives, starch based adhesives; dextrin based adhesives. The exact amount of material to be added for the preservation of any given formulation will depend on the components and local storage time and conditions. Dosage rates should be determined by actual tests.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 21 1986

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

9386-28



5/2

AMA-20  
(ANTIMICROBIAL AGENT)

TECHNICAL DATA

ACCEPTED  
DOCUMENTS  
EPA REG. NO. 9386-28

MAY 21 1986

AMA-20 is an effective, low cost, liquid antimicrobial agent.

COMPOSITION:

Active Ingredient:		
	tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	27%
Inert Ingredients:		80%
TOTAL		100%

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 9386-28

TYPICAL PHYSICAL PROPERTIES:

Physical Form:	Creamy liquid	Color:	White
Specific Gravity:	1.058 @ 25°C	Solubility:	Complete at use concentration
Flash Point:	over 200°F(TOC)	Density:	8.8 lbs/gal
pH:	8.1 - 8.4	Viscosity:	848 cp w/#3 @ 60 rpm

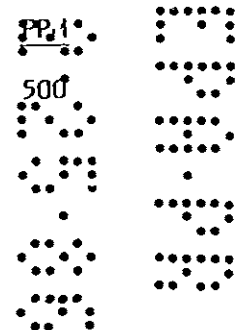
EFFICACY:

AMA-20 has been found to be an effective agent against many bacteria and fungi.

Following is a tabulation showing the ppm of AMA-20 required to give complete inhibition at 96 hours:

<u>MICROORGANISM</u>	<u>PPM</u>	<u>MICROORGANISM</u>	<u>PPM</u>
1. <u>Flavobacterium capsulatum</u>	167	5. <u>Aspergillus niger</u>	333
2. <u>Enterobacter aerogenes</u>	1000	6. <u>Penicillium expansum</u>	500
3. <u>Bacillus subtilis</u>	333	7. <u>Fusarium oxysporum</u>	1000
4. <u>Pseudomonas fluorescens</u>	1000		

<u>COMBINATION OF BACTERIA</u>	<u>PPM</u>	<u>COMBINATION OF FUNGI</u>	<u>PPM</u>
1,2&4(Bacterial Combination)	1000	5,6&7(Fungal Combination)	500
<u>SULFATE-REDUCING BACTERIA</u>			
Desulfovibrio desulfuricans	120-130		



ACCEPTED  
with COMMENTS  
in EPA Letter Book

MAY 21 1986

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Registered under EPA Reg. No. 9386-28  
Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide

FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS:

For preservation of slurries and high viscosity suspensions, AMA-20 should be added at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. Add AMA-20 at use levels of 0.04-0.11%, by weight, based on the total formulation in slurries of starch, clay, calcium carbonate or titanium dioxide; paper coatings; high viscosity suspensions (e.g. polymers; silica-polymer combinations); polyvinyl alcohol/polyvinyl acetate based adhesives; starch based adhesives; dextrin based adhesives. The exact amount of material to be added for the preservation of any conditions. Dosage rates should be determined by actual tests.

PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:

AMA-20 is added at a point in the system (raw stock chest; beater and/or refiner chest or machine chest - wirepit) where it will be uniformly mixed. Application may be continuous or intermittent for a certain number of hours/day or per shift, depending upon system characteristics. Add 5 to 20 fluid ounces of AMA-20 per ton of paper produced.

INTERMITTENT FEED METHOD: Apply 12 to 20 fluid ounces of AMA-20 per ton (dry basis) of pulp or paper for 2 hours every 8 hours. Badly fouled process systems must be cleaned before initial treatment.

CONTINUOUS FEED METHOD: Apply 5 to 15 fluid ounces of AMA-20 per ton (dry basis) of pulp or paper produced on a continuous basis. Badly fouled process systems must be cleaned before initial treatment.

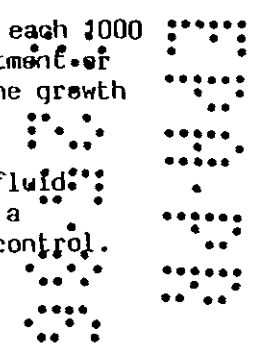
Consult your Vinings' representative for technical advice concerning certain site problems.

RECIRCULATING COOLING WATER SYSTEMS: FOR THE CONTROL OF ALGAE, FUNGI, AND SLIME FORMING BACTERIA:

Dosages for industrial recirculating cooling water systems will depend on the conditions of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AMA-20 to the cleaned system or when growth is first noticed according to the following schedule.

INITIAL DOSAGE: Apply 3.25-6.5 fluid ounces (30-60 ppm) of AMA-20 per each 1000 gallons of water in the system. This dose may be as a continuous treatment or applied once, twice, or three times weekly or as required to control the growth of slime-forming organisms.

SUBSEQUENT DOSAGE: When microbial control is evident add 0.5 to 3.25 fluid ounces (5-30 ppm) of AMA-20 per 1000 gallons of water in the system as a continuous treatment daily or every 3 days or as required to maintain control.



1/8  
OILFIELD DRILLING MUDS AND WORKOVER OR COMPLETION FLUIDS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA: Determine the total volume of the circulating system. Calculate the number of gallons of Vinings' AMA-20 needed to produce a concentration of 2,080 ppm (0.73 lb/bbl) of Vinings' AMA-20 in the drilling mud circulating system. For example, 75 gallons of Vinings' AMA-20 per 1000 barrels of drilling fluid will produce the proper concentration.

For best results add Vinings' AMA-20 in a thin stream to the mud pit while the drilling fluid is circulating.

As the total volume increases, due to greater well depth, add additional Vinings' AMA-20 to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the AMA-20 may be prescribed.

OILFIELD WATER TREATMENT AND WATER FLOODS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA: Calculate the total volume of water to be treated. Using this volume, calculate the number of gallons of Vinings' AMA-20 needed to produce a concentration of approximately 2500 ppm Vinings' AMA-20. For example, 2.1 gallons of Vinings' AMA-20 per each 1000 gallons of total volume will produce this dilution.

350 ppm Vinings' AMA-20, added each week, is recommended to maintain bacterial control. This may be accomplished by adding 0.30 gallons of Vinings' AMA-20 to each 1000 gallons of total volume. Because of the wide variation in waters found in the oil field, greater or lesser amounts of AMA-20 may be required in a particular location.

STORAGE AND DISPOSAL:

DO NOT CONTAMINATE WATER, FOOD, OR FEED  
BT STORAGE OR DISPOSAL

**STORAGE:** Protect from freezing and temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect liquid with absorbent material and dispose of in accordance with local, state and federal pesticide disposal regulations.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

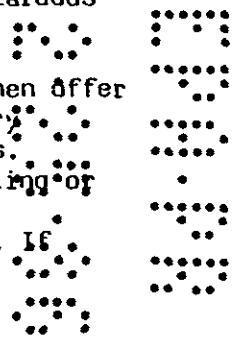
**CONTAINER DISPOSAL:** Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If buried, stay out of smoke.

ACCEPTED  
with COMMENTS  
by ENE Letter Dated:

MAY 21 1986

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

938628



PRECAUTIONARY STATEMENTS:

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. Corrosive. Causes severe eye damage 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 or absorbed through skin. Avoid contamination of food.

STATEMENT OF PRACTICAL TREATMENT:

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. Avoid alcohol. Call a physician immediately.

Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage.

TECHNICAL ASSISTANCE:

The service of our engineers is available at any time, upon request, to assist in solving problems pertaining to 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.

PHYSICAL OR CHEMICAL HAZARDS:

DO NOT USE, SPILL, POUR OR STORE NEAR OPEN FLAME

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not apply (or use) in estuarine oil fields where drilling fluids (muds) are discharged in the surface water. Do not discharge treated effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment authority. For guidance contact your State water Board or Regional Office of the Environmental Protection Agency.

ACCEPTED  
COMMENTS  
EPA Letter Dated:

SHIPPING POINT:  
Marietta, Georgia

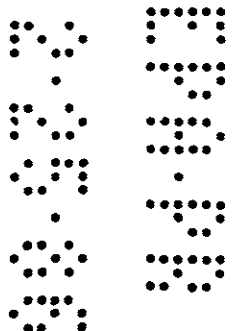
PACKAGING:  
30 gallon drums  
55 gallon drums  
350 gallon portabins  
Bulk

MAY 21 1986

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

1386-28

VININGS CHEMICAL COMPANY  
3950 Cumberland Parkway  
Atlanta, Georgia 30339



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km



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US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS-767)  
WASHINGTON, DC 20460

EPA REGISTRATION

DATE OF ISSUANCE

9386-28

MAY 21 1986

TERM OF ISSUANCE

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME OF PESTICIDE PRODUCT

A4A-20

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

7122 N. ...  
...  
... 50331

NOTE: 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.

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.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement 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.

This product is conditionally registered in accordance with FIFRA section 5(c)(7)(A) provided that you:

1. Submit and/or file all data required for registration/reregistration of your product under FIFRA section 5(c)(7)(A) when the Agency requires all registrants of similar products to submit such data.

2. Place the following change listed below your release label FOR SALE:

- add the phrase "EPA Registration No. 9386-28."

3. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 5(c). Your release for sale of the product constitutes acceptance of these conditions.

A copy of the label is enclosed for your records.

*John A. Lee*  
John A. Lee  
Product Manager (31)  
Disinfectants Branch  
Registration Division (TS-767)

ENCLOSURE

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

# VININGS *Chemical Company*

ATLANTA, GEORGIA

# AMA-20

(Antimicrobial Agent)

(FOR INDUSTRIAL USE ONLY)

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 21 1986

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

9386-28

ACTIVE INGREDIENT:

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione ..... 20%

INERT INGREDIENTS: ..... 80%

Total 100%

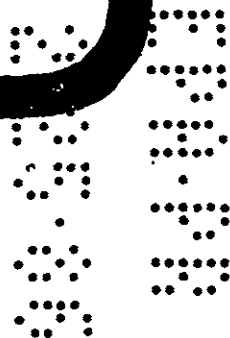
KEEP OUT OF REACH OF CHILDREN

DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REGISTRATION NO. 9386- EPA ESTABLISHMENT NO. 9386-GA-1

Manufactured By  
**VININGS CHEMICAL COMPANY**  
MARIETTA, GEORGIA 30066



PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

**DANGER. KEEP OUT OF REACH OF CHILDREN.** Corrosive. Causes severe eye damage 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 or absorbed through skin. Avoid contamination of Food.

STATEMENT OF PRACTICAL TREATMENT

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. Avoid alcohol. Call a physician immediately.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

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**DO NOT USE, SPILL, POUR OR STORE NEAR OPEN FLAME.**

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**STORAGE AND DISPOSAL**

**DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL**

**STORAGE:** Protect from freezing and temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect liquid with absorbant material and dispose of in accordance with local, state and federal pesticide disposal regulations.

**PESTICIDE DISPOSAL:** Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** Metal Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic Containers - Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

9.7 lbs. per gallon

**VININGS CHEMICAL COMPANY**

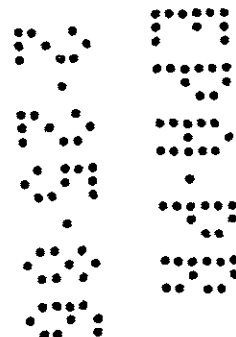
ATLANTA, GEORGIA 30339

ACCEPTED  
with COMMENTS  
by EPA Date: dated:

MAY 21 1986

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

9386-28



# DIRECTIONS FOR USE:

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

**PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:** AMA-20 is added at a point in the system (raw stock chest, beater and/or refiner chest or machine chest - wirepit) where it will be uniformly mixed. Application may be continuous or intermittent for a certain number of hours/day or per shift, depending upon system characteristics. Add 5 to 20 fluid ounces of AMA-20 per ton of paper produced.

**INTERMITTENT FEED METHOD:** Apply 12 to 20 fluid ounces of AMA-20 per ton (dry basis) of pulp or paper for 2 hours every 8 hours. Badly fouled process systems must be cleaned before initial treatment.

**CONTINUOUS FEED METHOD:** Apply 5 to 15 fluid ounces of AMA-20 per ton (dry basis) of pulp or paper produced on a continuous basis. Badly fouled process systems must be cleaned before initial treatment.

**RECIRCULATING COOLING WATER SYSTEMS: FOR THE CONTROL OF ALGAE, FUNGI, AND SLIME-FORMING BACTERIA:** Dosages for industrial recirculating cooling water systems will depend on the conditions of the system prior to treatment initiation. Systems which are heavily contaminated should be cleaned first. Apply AMA-20 to the cleaned system or when growth is first noticed according to the following schedule.

**INITIAL DOSAGE:** Apply 3.25-6.5 fluid ounces (30-60 ppm) of AMA-20 per each 1000 gallons of water in the system. This dose may be as a continuous treatment or applied once, twice, or three times weekly or as required to control the growth of slime-forming organisms.

**SUBSEQUENT DOSAGE:** When microbial control is evident add 0.5-3.25 fluid ounces (5-30 ppm) of AMA-20 per 1000 gallons of water in the system as a continuous treatment daily or every 3 days or as required to maintain control.

**OILFIELD DRILLING FLUIDS AND WORKOVER OR COMPLETION FLUIDS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:** Determine the total volume of the circulating system. Calculate the number of gallons of Vinings AMA-20 needed to produce a concentration of 2,080 ppm (0.73 lb/bbl) of Vinings AMA-20 in the drilling mud circulating system. For example, 75 gallons of Vinings AMA-20 per 1000 barrels of drilling fluid will produce the proper concentration.

For best results add Vinings AMA-20 in a thin stream to the mud pit while the drilling fluid is circulating.

As the total volume increases, due to greater well depth, add additional Vinings AMA-20 to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the AMA-20 may be prescribed.

**OILFIELD WATER TREATMENT AND WATER FLOODS: FOR CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:** Calculate the total volume of water to be treated. Using this volume, calculate the number of gallons of Vinings AMA-20 needed to produce concentration of approximately 2500 ppm Vinings AMA-20. For example, 2.1 gallons of Vinings AMA-20 per each 1000 gallons of total volume will produce this solution.

350 ppm Vinings AMA-20, added each week, is recommended to maintain bacterial control. This may be accomplished by adding 0.30 gallons of Vinings AMA-20 to each 1000 gallons of total volume. Because of the wide variation in waters found in the oil field, greater or lesser amounts of AMA-20 may be required in a particular location.

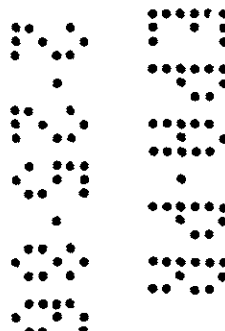
**FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS:** For preservation of slurries and high viscosity suspensions, AMA-20 should be added at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. Add AMA-20 at use levels of 0.04-0.11%, by weight, based on the total formulation in slurries of starch, clay, calcium carbonate or titanium dioxide; paper coatings, high viscosity suspensions (e.g. polymers, silica-polymer combinations); polyvinyl alcohol/polyvinyl acetate based adhesives, starch based adhesives; dextrin based adhesives. The exact amount of material to be added for the preservation of any given formulation will depend on the components and local storage time and conditions. Dosage rates should be determined by actual tests.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

MAY 21 1986

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

9386-28



5/2

AMA-20  
(ANTIMICROBIAL AGENT)

TECHNICAL DATA

ACCEPTED  
FOR COMMENTS  
3/11/86 [unclear]

AMA-20 is an effective, low cost, liquid antimicrobial agent.

MAY 21 1986

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

COMPOSITION:

Active Ingredient:	tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione	20%
Inert Ingredients:		80%
TOTAL		<u>100%</u>

9386-28

TYPICAL PHYSICAL PROPERTIES:

Physical Form:	Creamy liquid	Color:	White
Specific Gravity:	1.058 @ 25°C	Solubility:	Complete at use concentration
Flash Point:	over 200°F (TOC)	Density:	8.8 lbs/gal
pH:	8.1 - 8.4	Viscosity:	848 cp w/#3 @ 60 rpm

EFFICACY:

AMA-20 has been found to be an effective agent against many bacteria and fungi.

Following is a tabulation showing the ppm of AMA-20 required to give complete inhibition at 96 hours:

<u>MICROORGANISM</u>	<u>PPM</u>	<u>MICROORGANISM</u>	<u>PPM</u>
1. <u>Flavobacterium capsulatum</u>	167	5. <u>Aspergillus niger</u>	333
2. <u>Enterobacter aerogenes</u>	1000	6. <u>Penicillium expansum</u>	500
3. <u>Bacillus subtilis</u>	333	7. <u>Fusarium oxysporum</u>	1000
4. <u>Pseudomonas fluorescens</u>	1000		

<u>COMBINATION OF BACTERIA</u>	<u>PPM</u>	<u>COMBINATION OF FUNGI</u>	<u>PPM</u>
1,2&4 (Bacterial Combination)	1000	5,6&7 (Fungal Combination)	500
<u>SULFATE-REDUCING BACTERIA</u> Desulfovibrio desulfuricans	120-130		

