1/1 9386-4 Pg 31
Center Panel AMA-10

VININGS Chemical Company

ATLANTA, GEORGIA

AMA-10

(Antimicrobial Agent)

(FOR INDUSTRIAL USE ONLY)

ACTIVE INGREDIENT	
Methylene bis (thiocyanate)	10%
INERT INGREDIENTS	90%
	Total 100%

KEEP OUT OF REACH OF CHILDREN

DANGER

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REGISTRATION NO. 9386-4 EPA ESTABLISHMENT NO. 9386-GA-1

Manufactured By

VININGS CHEMICAL COMPANY

MARIETTA, GEORGIA 30066

ACCEPTED

MAY 22 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 9386-4

Left Panel AMA-10

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

HARMFUL OR FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. CAUSES EYE DAMAGE AND SKIN IRRITATION. In case of contact remove contaminated clothing and immediately wash skin with soap and water If irritation persists get medical attention. In case of contact with eyes immediately flush with water and get medical attention Wash contaminated clothing before reuse Wear goggles or face shield and rubber gloves when handling Do not get in eyes, on skin or on clothing

PHYSICAL AND CHEMICAL HAZARDS

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME

ENVIRONMENAL HAZARDS: This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. 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 toxic. 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

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Right Panel AMA-10

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-10 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 2 to 5 fluid ounces of AMA-10 per ton of paper produced

INTERMITTENT FEED METHOD: Apply 3.5 to 5 fluid ounces of AMA-10 per ton (dry basis) of pulp or paper for 2 hours every 8 hours Badly fouled process systems must be cleaned before initial treatmen

CONTINUOUS FEED METHOD: Apply 2 to 4 fluid ounces of AMA-10 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 CONTROL OF SLIME-FORMING BACTERIA (cooling towers, evaporative condensers) Bacterial control Use 1.6 to 7.9 fluid ounces of AMA-10 per 1000 gallons water (1.25 to 6 20 ppm active) as a continuous treatment, one to three times a week or as required to maintain control

When the system is just noticeably fouled, use 5.8 to 12.5 fluid ounces of AMA-10 per 1000 gallons water (4.5 to 9.8 ppm active) as a continous treatment daily or as required to obtain control Badly fouled systems must be cleaned before treatment is begun

Apply at a point in the system where uniform mixing and even distribution will occur such as the cooling tower basin or sump.

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-10 needed to produce a concentration of 5000 ppm (1.75 lb/bbl) of Vinings AMA-10 in the drilling mud circulating system For example, 211 gallons of Vinings AMA-10 per 1000 barrels of drilling fluid will produce the proper concentration

For best results add Vinings AMA-10 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-10 to maintain the proper concentration.

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-10 needed to produce concentration of approximately 750 ppm Vinings AMA-10 For example, 0 75 gallons of Vinings AMA-10 per each 1000 gallons of total volume will produce this dilution

Add Vinings AMA-10 as a slug treatment or intermittently

500 ppm Vinings AMA-10, added each week, is recommended to maintain bacterial control This may be accomplished by adding 0 50 gallons of Vinings AMA-10 to each 1000 gallons of total volume

LEATHER PROCESSING LIQUORS: AMA-10 may be used to prevent the growth of bacteria and fungi in the pickling and tanning processes of skins and hides Depending upon the holding time, AMA-10 should be added at the rate of 0 025% to 0 25% (0 25 to 2 5 lbs of AMA-10 per 1000 lbs) of white weight stock

8.7 lbs. per gallon

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VININGS CHEMICAL COMPANY

ATLANTA, GEORGIA 30339

4/17

AMA-10
(ANTIMICROBIAL AGENT)

TECHNICAL DATA

AMA-10 is an excellent, low cost liquid antimicrobial agent for use in paper mills, cooling towers, leather processing liquors, drilling muds and fluids and oil field floods.

COMPOSITION

Active Ingredient: Methylene bis(thiocyanate)	10%
Inert Ingredients:	90%
TOTAL	100%

TYPICAL PHYSICAL PROPERTIES

Physical form:	Creamy liquid	Color:	Beige
Specific Gravity:	1.04 @ 23°C	Density:	8.7 lbs/gal
Flash Point:	Over 200° F	Solubility:	Complete at use concentration
pH:	4.3		
Freeze Point:	18°F	Viscosity:	600 cps

EFFICACY

AMA-10 has been found to be an effective agent against many bacteria and fungi.

Following is a tabulation showing the ppm of AMA-10 required to give complete inhibition at 96 hours:

MICROORGANISM	PPM
BACTERIA	
1. Flavobacterium capsulatum	2.2
2. Enterobacter aerogenes	40.0
3. Bacillus subtilus	20.0
4. Pseudomonas fluorescens	12.5
COMBINATION OF BACTERIA	**PPM**
1,2&4(Bacterial Combination)	40.0
SULFATE-REDUCING BACTERIA	**PPM**
Desulfovibiro desulfuricans	5

MICROORGANISM	PPM
FUNGI	
5. Aspergillus niger	20.5
6. Penicillium expansum	40.0
7. Fusarium oxysporium	40.0
COMBINATION OF FUNGI	**PPM**
5,6&7(Fungal Combination)	30.3

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DIRECTIONS FOR USE

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

PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA: AMA-10 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 each day or per shift, depending upon system characteristics. Add 2 to 5 fluid ounces of AMA-10 per ton of paper produced.

INTERMITTENT FEED METHOD: Apply 3.5 to 5 fluid ounces of AMA-10 per ton (dry basis) of pulp or paper produced on a continuous basis. Badly fouled process systems must be cleaned before initial treatment.

CONTINUOUS FEED METHOD: Apply 2 to 4 fluid ounces of AMA-10 per ton (dry basis) of pulp or paper produced on a continuous basis. Badly fouled process systems must be cleaned before initial treatment.

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MAY 22 1986
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Consult your Vinings' representative for technical advice concerning certain site problems.

RECIRCULATING COOLING WATER SYSTEMS: FOR CONTROL OF SLIME-FORMING BACTERIA (cooling towers, evaporative condensers) Bacterial control: Use 1.6 to 7.9 fluid ounces of AMA-10 per 1000 gallons water (1.25 to 6.20 ppm active) as a continuous treatment, one to three times a week or as required to maintain control.

When the system is just noticeably fouled, use 5.8 to 12.5 fluid ounces of AMA-10 per 1000 gallons water (4.5 to 9.8 ppm active) as a continuous treatment daily or as required to obtain control. Badly fouled systems must be cleaned before treatment is begun.

Apply at a point in the system where uniform mixing and even distribution will occur, such as the cooling tower basin or sump.

LEATHER PROCESSING LIQUORS: AMA-10 may be used to prevent the growth of bacteria and fungi in the pickling and tanning processes of skins and hides. Depending upon the holding time, AMA-10 should be added at the rate of 0.025% to 0.25% (0.25 lbs. to 2.5 lbs of AMA-10 per 1000 lbs.) of white weight stock.

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-10 needed to produce a concentration of 5,000 ppm (1.75 lb/bbl) of Vinings' AMA-10 in the drilling mud circulating system. For example, 211 gallons of Vinings' AMA-10 per 1000 barrels of drilling fluid will produce the proper concentration.

For best results add Vinings' AMA-10 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-10 to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the AMA-10 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 Vininigs AMA-10 needed to produce a concentration of approximately 750 ppm Vinings' AMA-10. For example, 0.75 gallons of Vinings'AMA-10 per each 1000 gallons of total volume will produce this dillution

Add Vinings' AMA-10 as a slug treatment or intermittently.

500 ppm Vinings' AMA-10, added each week, is recommended to maintain bacterial control. This may be accomplished by adding 0.50 gallons of Vinings' AMA-10 to each 1000 gallons of total volume.

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.

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STORAGE AND DISPOSAL

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

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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.

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

HARMFUL OR FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. CAUSES EYE DAMAGE AND SKIN IRRITATION. In case of contact remove contaminated clothing and immediately wash skin with soap and water. If irritation persists get medical attention. In case of contact with eyes, immediately flush with water and get medical attention. Wash contaminated clothing before reuse. Wear goggles or face shield and rubber gloves when handling. Do not get in eyes, on skin or on clothing.

PHYSICAL & CHEMICAL HAZARDS

Do not use or store near heat or open flame.

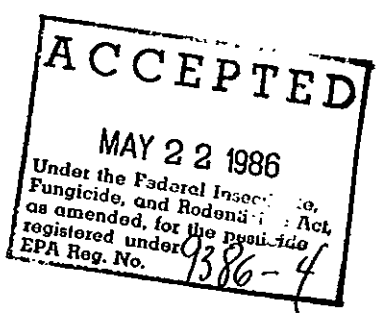
ENVIRONMENTAL HAZARDS

ENVIRONMENAL HAZARDS: This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. 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.

FOOD & DRUG REGULATIONS

The ingredients in AMA-10 are cleared by the United States Food and Drug Administration for use in the manufacture of pulp and paper to be used for food packaging in accordance with 21 CFR 176.300, 21 CFR 176.170, 21 CFR 176.230.

SHIPPING POINT	PACKAGING
Marietta, Georgia	30 gallon drums 55 gallon drums 350 gallon portabins Bulk



VININGS CHEMICAL COMPANY
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