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9386-4

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 28 1997

Vinings Industries, Inc.
303 Cumberland Parkway
Atlanta, GA 30339-4501

Attention: R.V. Hinton

Subject: AMA-10
EPA Registration Number 9386-4
Your Submission Dated April 30, 1997
EPA Received Date May 2, 1997

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise the verbiage in the "Statement of Practical Treatment" section, is acceptable.

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

If you have any questions concerning this letter, please contact Karen M. Leavy-Munk at (703)-308-6237.

Sincerely yours,

Marshall Swindell
Acting Product Manager (33)
Antimicrobial Program Branch
Registration Division (7510W)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							



TECHNICAL DATA

AMA[®]-10

DESCRIPTION:

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:		<u>90%</u>
	TOTAL	100%

TYPICAL PROPERTIES:

Appearance:	White to Beige creamy liquid	Density:	8.7 lb/gal
Flash Point:	Over 200°F	Solubility:	Complete at use concentration
pH:	3.0	Viscosity:	900 cps (Brookfield)
Freeze Point:	18°F		

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:

<u>MICROORGANISM</u>		<u>MICROORGANISM</u>	
<u>BACTERIA</u>	<u>PPM</u>	<u>FUNGI</u>	<u>PPM</u>
1. <i>Flavobacterium capsulatum</i>	2.2	5. <i>Aspergillus niger</i>	20.5
2. <i>Enterobacter aerogenes</i>	40.0	6. <i>Penicillium expansum</i>	40.0
3. <i>Bacillus subtilis</i>	20.0	7. <i>Fusarium oxysporium</i>	40.0
4. <i>Pseudomonas fluorescens</i>	12.5		
<u>COMBINATION OF BACTERIA</u>	<u>PPM</u>	<u>COMBINATION OF FUNGI</u>	<u>PPM</u>
1,2&4 (Bacterial Combination)	40.0	5,6&7 (Fungal Combination)	30.3
<u>SULFATE-REDUCING BACTERIA</u>	<u>PPM</u>		
<i>Desulfovibrio desulfuricans</i>	5		

ACCEPTED
with COMMENTS
in EPA Letter Dated:
JUL 28 1997

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

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 - wire pit) 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 5.0 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 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.

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 pounds to 2.5 pounds of AMA[®]-10 per 1000 pounds) of white weight stock.

OIL FIELD 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/bl) 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.

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in EPA Letter Dated:
JUL 28 1997

Under the Federal Insecticide,
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OIL FIELD 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 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 dilution

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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:

Our technical staff is available to assist in the application of Vinings' products. You may request assistance through your sales representative or by contacting Vinings Industries at 800-347-1542.

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 absorbent material and dispose of in accordance with local, state and federal 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.

PRECAUTIONARY STATEMENTS:
HAZARD TO HUMANS AND DOMESTIC ANIMALS
DANGER
CORROSIVE, CAUSES EYE AND SKIN DAMAGE

Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reusing. Avoid contamination of food. Harmful or fatal if swallowed.

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STATEMENT OF PRACTICAL TREATMENT:

IF IN EYES:	Flush immediately with water for at least 15 minutes and get medical attention.
IF INGESTED:	Do not induce vomiting. Get medical attention.
IF ON SKIN:	Remove contaminated clothing and immediately wash skin with soap and water for at least 15 minutes. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PHYSICAL OR CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

SHIPPING POINT:

Marietta, Georgia
Washougal, Washington

PACKAGING:

55 gallon drums
350 gallon portabins
Bulk

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUL 28 1997

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

9386-4

USES FOR USE:

Use this product in a manner inconsistent with labeling.

FOR THE CONTROL OF SLIME-FORMING

AMA[®]-10 is added at a point in the system (raw line chest or wirepit) where it will be uniformly intermittent for a certain number of hours per day. Add 2 to 5 fluid ounces of AMA[®]-10

3.5 to 5.0 fluid ounces of AMA[®]-10 per ton (dry hours. Badly fouled process systems must be

2 to 4 fluid ounces of AMA[®]-10 per ton (dry basis. Badly fouled process systems must have your Vinings representative for technical advice

FOR SYSTEMS: FOR CONTROL OF SLIME

(evaporative condensers) Bacterial Control: Use 100 gallons water (1.25 to 6.20 ppm active) as a week or as required to maintain control. When the 2.5 fluid ounces of AMA[®]-10 per 1,000 gallons are required to obtain control. Badly fouled systems Apply at a point in the system where uniform flow is as the cooling tower basin or sump.

FOR MAKEOVER OR COMPLETION FLUIDS: FOR CONTROLLING AND/OR SPOILAGE BACTERIA:

For a cooling system. Calculate the number of gallons of water of 5,000 ppm (1.75 lb/bbl) of AMA[®]-10 in the system. 211 gallons of AMA[®]-10 per 1000 barrels of water per gallon. For best results, add AMA[®]-10 in a thin stream as it is circulating. As the total volume increases add AMA[®]-10 to maintain the proper concentration.

FOR WATER FLOODS: FOR CONTROL OF BACTERIA:

Calculate the total volume of water. Determine the number of gallons of AMA[®]-10 needed to produce 750 ppm AMA[®]-10. For example, 0.75 gallons of AMA[®]-10 will produce this dilution. Add AMA[®]-10 as a stream of AMA[®]-10, added each week is recommended and accomplished by adding 0.50 gallons of AMA[®]-10

AMA[®]-10 may be used to prevent the growth of bacteria in processes of skins and hides. Depending upon the rate of 0.025% to 0.25% (0.25 to 2.5 lbs. per stock.

AMA[®]-10

(ANTIMICROBIAL AGENT)

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

(FOR INDUSTRIAL USE ONLY)

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

- If In Eyes:** Flush immediately with water for at least 15 minutes and get medical attention.
- If Ingested:** Do not induce vomiting. Get medical attention.
- If On Skin:** Remove contaminated clothing and immediately wash skin with soap and water for at least 15 minutes. If irritation persists get medical attention. Wash contaminated clothing before reuse.

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

See Side Panel For Additional Precautionary Statements

EPA REG. NO. 9386-4 EPA EST NO. 9386-GA-1

MANUFACTURED BY

VININGS INDUSTRIES INC.

1654 West Oak Drive
MARIETTA, GEORGIA 30062-2234

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

PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER

Corrosive, causes eye and skin damage. Do not get in eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reusing. Avoid contamination of food. Harmful or fatal if swallowed.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge.

Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS:

Do not use, spill, pour or store near open flame.

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 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 directions, contact your State Pesticide or Environment 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.

ACCEPTED with COMMENTS in EPA Letter Dated: JUL 28 1991

DENSITY: 8.7 LBS/GAL. LABEL DATE: 04/30/97

LOT#

NET WT. 475 Pounds

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