PM-31

Reg # 9386 - 4 UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

APR 28 1995

Vinings Industries, Inc. 3950 Cumberland Parkway Atlanta, GA 30339

Attention: R.V. Hinton

Subject: AMA-10 EPA Registration No. 9386-4 Amendment Dated April 3, 1995

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to revise your "Environmental Hazard" statement as per PR Notice 93-10, is acceptable, provided that you make the labeling changes listed below before you release the product for shipment bearing the amended label.

1. Under the "Statement of Practical Treatment" section, revise the statement "If ingested: Do not induce vomiting. Get medical attention" to read "If ingested: Drink promptly a large quantity of water. Do not induce vomiting. Get medical attention".

2. Delete the statement "Measures against circulatory shock, respiratory depression and convulsion may be needed".

A stamped copy of the labeling is enclosed for your records. Submit one (1) copy of the final printed label prior to release of the product for shipment.

If you have any questions concerning this letter, please contact Martha Terry at (703) 305-6982.

Sincerely, ACT/ohn

Marion J. Johnson, Jr. Product Manager (31) Antimicrobial Program Branch Registration Division (7505C)

Enclosure

CONCURRENCES										
SYNBOL										
SURNAME										
PATE										
EPA Form 1320-1A (1/90)			Printed on Recycled Paper			OFFICIAL FILE COPY				

DIRECTIONS FOR USE:

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

<u>PAPER MILL SLIME CONTRCL:FOR THE CONTROL OF SLIME-FORMING</u> <u>AND/OR SPOILAGE BACTERIA</u>:AMA®-10 is added at a point in the system (raw stock chest, beater and/or refiner chest, machine chest or wirepit) where it will be uniformly mixed. Application may be continuous or intermittent for a certain number of hours per 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 systems must be cleaned before initial treatment.

<u>CONTINUOUS FEED METHOD</u>: 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 condensors) Bacterial Control: Use 1.6 to 7.9 fluid ounces of AMA^{\diamond}-10 per 1,000 gallons water (1.25 to 6.20 ppm active) as a continuous or intermittent slug 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^{\diamond}-10 per 1,000 gallons water (4.5 to 9.8 ppm active) 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 gailons of AMA®-10 needed to produce a concentration of 5.000 ppm (1.75 lb/obl) of AMA®-10 in the drilling mud circulating system. For example, 211 gallons of AMA®-10 per 1000 barrels of drilling fluid will produce the proper concentration. For best results, add AMA®-10 in a thin stream to the mud pit while drilling fluid circulates. As the total volume increases due to greater well depth, add additional 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 galions of AMA®-10 needed to produce a concentration of approximately 750 ppm AMA®-10. For example, 0.75 gallons of AMA®-10 per 1000 gallons of total volume will produce this dilution. Add AMA®-10 as a slug treatment or intermettently. 500 ppm of AMA®-10, added each week is recommended to maintain bacterial control. This may be accomplished by adding 0.50 gallons of AMA®-10 to each 1,000 gallons of total volume.

BEST COPY AVAILABLE



(ANTIMICROBIAL AGENT)

Methylene bis (thiocyanite)

Active Ingredient:

Inert Ingredients:

TOTAL

(FOR INDUSTRIAL USE ONLY)

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

If in Eyes: Flush immediately with water and get medical attention. If ingested: Do not induce vomiting. Get medical attention. If on Skin: Remove contaminated clothing and immediately wash skin v and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

Note To Physician: Probable mucosal damage may contraindicate the u Measures against circulatory shock, respiratory depression may be needed.

EPA REGISTRATION No. 9386-4 EPA ESTA

04/03/95

EPA ESTABLISHMENT N

LPATHER PROCESSING LIQUORS: AMA^{\bullet}-10 may be us growth of bacteria and fungi in the pickling and tanning processing upon the holding time, AMA^{\bullet}-10 should be a 0.025% to 0.25% (0.25 to 2.5 lbs. of AMA^{\bullet}-10 per 1,000 lbs stock.

MANUFACTURED BY VININGS INDUSTRIES, IN MARIETTA, GEORGIA 30 WARIETTA, GEORGIA 30

8.7 LBS/GAL

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THE CONTROL OF SLIMP-FORMING

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SYSTEMS: FOR CONTROL OF SLIME

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<u>XOVER OR COMPLETICE FLUIDS; FOR</u>

<u>OP</u> SPOILAGE BACTERIA: Determine the lculate the number of gallons of AMA®-10 poin (1.75 lb/bbl) of AMA®-10 in the Jrilling lons of AMA®-10 per 1000 barrels of orilling For i.est rest.lts, add AMA®-10 in a thin ulates. As the total volume increases due to o maintain the proper concentration.

WATER FLOODS:FOR CONTROL OF BACTERIA: Colculate the total volume of ite the number of gallons of AMA*-10 needed 50 ppm AMA* 10. For example, 0.75 gallons will produce this dilution. Add AMA*-10 as AMA*-10, added each week is recommended

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(ANTIMICROBIAL AGENT)

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Inert Ingredients: TOTAL

(FOR INDUSTRIAL USE ONLY)

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STATEMENT OF PRACTICAL REATMENT

If in Eyes: Flush immediately with water and get medical attention. If ingested: Do not induce vomiting. Get medical itention. If on Skin: Remove contaminated clothing and in mediately wash skin with score and water. If irritation persists, get medical attention. Wash contaminated clothing before reuse.

Note To Physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and conculsions may be needed.

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

LEATHER PROCESSING LIQUORS: AMA®-10 may be used to prevent the growth of bacteria and fungi in the pickling and taking 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®-19 per 1,000 lbs.) of white weight stock.

MANUFACTURED BY VININGS INDUSTRIES, INC. MARIETTA, GEORGIA 30062 with COMMENTS in EPA Letter Dated:

PRECAUTIONARY STATEMENTS:

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful or fatal if swallowed or absorbed through the skin. Causes eye damage and skin irritation. Wear goggles or face shield and rubber gloves when handling. Do not get in eyes, on skin or on clothing.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not apply in marine or estuarine oil fields. 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 or store near heat or open flame.

STORAGE AND DISPOSAL:

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OF D'SPOSAL

STORAGE: Protect from freezing and temperatures it, 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 "ederal dispose' 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 walles cannot be disposed of by use according to label directions, 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 reconstitutining, or punctum and dispose of in a sanitary landful, or by other procedures approved by state and local authorities. Plastic Containers - Triple rinse (or equivalent). Then offe, for recycling o, reconditioning, or puncture and dispose of in a sanitary landfull, or incineration, or if allowed by state and local authonties, by luming. If burned, stay out of smoke.

04/03/95 8 7 LBC/GAL

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NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

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FOOD AND DRUG REGULATIONS:

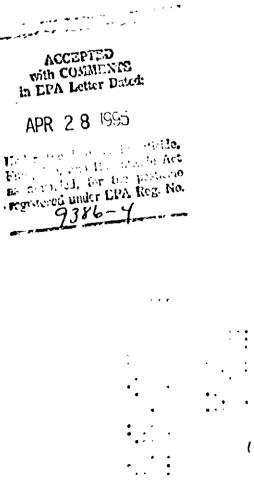
The ingredients in AMA[•]-10 are cleared by the United States Food and Drug Administration for use in the manufacture of pulp and paper to be used for food packaging in accordance with 21 CFR 176.300.

<u>SHIPPING POINT</u>:

PACKAGING:

Marietta, Georgia Washougal, Washington 55 gallon drums 350 gallon portabins Bulk

gnih Form AMA10.TDS Date 04/95 Revision: 4



TECHNICAL DATA

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AMA⁴-10 (ANTIMICROBIAL AGENT)

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DESCRIPTION:

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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:		ACCEPTED with COMMENTS in EPA Letter Duted:
Active Ingredient: Methylene bis(thiocyanate)		10% APR 28 1995
Inert Ingredients:		
TOTAL		100% Constant Lines and Miss
TYPICAL PROPERTIES:		rer des ei ander EPA Reg. Ho. 7386 - 4
Appearance. White to Beige creamy liquid	Density:	8.7 lb/gal
Flash Point: Over 200°F	Solubility:	Complete at use
pH: 4.3	•	concentration
Freeze Point: 18°F	Viscosity:	900 cps (Brookfield)

EFFICACY:

AMA[®]-10 has been found () 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:

MICKOORGANISM		MICROGRGANISM	
BACTERIA	<u>PFM</u>	FUNGI	<u>РРМ</u>
 Flavobacterium capsulatum Enterobaster zerogenes Baculuz subtilus Pseudomonas fluorescens 	2.2 10.0 20.0 12.5	5. <u>Aspergillus niger</u> 6. <u>Penicillium expansum</u> 7. F <u>usarium oxysporium</u>	20.5 40.0 40.0
COMBINATION OF BACTERIA	PPM	COMBINATION OF FUNGI	<u> </u>
1,2&4(Bacterial Combination)	40.0	5,6&7(Eungal Combination)	30.3
SULFATE-REDUCING BACTERIA	<u>a ppm</u>		

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AMA[®]-10 Page 2

DIRECTIONS FOR USE:

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It is a violation of federal law to use this product in a manner inconsistent with its Tabeling $-\frac{9386-4}{4}$

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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.

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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^{\bullet}-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.

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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 mumber 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.





OIL FIFLD WATER TREATMENT AND WATER FLOODS: FOR CONTROL OF SLIME-FORMING

<u>AND/OR SPOILAGE BACTERIA</u>: Calculate the total volume of water to be treated. Using this volume calculate the number of gallons of Vinings AMA⁶-10 needed to produce a concentration of approximately 750 ppm Vinings' AMA⁶-10. For example, 0.75 gallons of Vinings' AMA⁶-10 per each 1000 gallons of total volume will produce this dilution

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AMA®-10 Page 3

Add Vinings' AMA[®]-10 as a slug treatment or Intermittently.

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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 100C 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 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 incincration, or, if allowed by state and local authorities, by burning. If burned, stay out of sniche.

PRECAUTIONARY STATEMENTS: HAZARD TO AUMANS AND DOMESTIC ANIMALS

HARMFUL OR FATAL IF SWALLOWED OR ABSORBED THROUGH THE SKIN. CAUSES EYE DAMAGE AND SKIN IRRITATION. Wear goggles or face shield and rubber gloves when handling. Do not get in eyes, on skin or on clothing.

I.C.J. Pilli AN COULTS L. L.C. L. L. Dated ND2 28 1995 o an La