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	G : S	AMA-24 (ANTIMICROBIAL)	AGENT)
AMA-24 is an effective, low	v cost, liquid antimicrobi	al agent for use in a var	iety of systems.
Active ingredient : Tetrahy Inert ingredients :	ydro-3,5-dimethyl-2H-1,3	5-thiadiazine-2-thione	24% <u>76%</u> Total 100%
TYPICAL PHYSICAL PRO	PERTIES :		
Physical form : Specific Gravity : Flash Point : pH :	liquid 1.161 @ 25°C over 200°F(TOC) 13.4	Color : Solubility : Density :	Straw Complete at use concentration 9.7 lbs/gal

EFFICACY:

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AMA-24 has been found to be an effective agent against many bacteria and fungi.

Following is a tabulation showing the ppm of AMA-24 required to give complete inhibition at 96 hours :

MICROORGANISM	<u>PPM</u>	MICROORGANISM	PPM	-
 Flavobacterium capsulatum Enterobacter aerogenes Bacillus subtilus Pseudomonas fluorescens 	167 1000 333 1000	 Aspergillus niger Penicillium expansum Fusarium oxysporum 	333 500 1000	
COMBINATION OF BACTERIA	<u>PPM</u>	COMBINATION OF FUNGI	<u>РРМ</u>	
1,2, and 4 (Bacterial Combination) 1000		5,6, and 7 (Fungal Combination	on) 500	••••
SULFATE-REDUCING BACTERIA	<u>\</u>	*		•••••
Desulfovibrio desulfuricans	120 - 130	HIM COEPTED		•
		Under 12 Funder 12 as america 11	d:	

AMA-24 Page: 2

DIRECTIONS FOR USE:

PAPER MILL SLIME CONTROL : FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE <u>BACTERIA</u> : AMA-24 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-24 per ton or paper produced.

INTERMITTENT FEED METHOD: Apply 12 to 20 fluid ounces of AMA-24 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-24 per ton(dry basis) of pulp or paper produced on a continuous basis. Badly fouled process systems must be cleaned before initial reatment.

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

<u>RECIRCULATING COOLING WATER SYSTEMS : FORTHE CONTROL OF ALGAE, FUNGI, AND</u> <u>SLIME-FORMING BACTERIA</u> : 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-24 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-24 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-24 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-24 needed to produce a concentration of 2,080 ppm; (0.73 lb/bbl) of Vinings AMA-24 in the drilling mud circulating system. For example, 75 gallons of Vinings AMA-24 per 1000 barrels of drilling fluid will produce the proper concentration.

•For best results add Vinings AMA-24 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-24 to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the AMA-24 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-24 needed to produce concentration of approximately 2500 ppm Vinings AMA-24. For example, 2.1 gallons of Vinings AMA-24 per each 1000 gallons of total volume will produce this dilution.

VININGS	
AMA-24	
Page: 3	
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Add Vinings AMA-24 as a slug treatment or intermittently.

350 ppm Vinings AMA-24, added each week, is recommended to maintain bacterial control. This may be accomplished by adding 0.30 gallons of Vinings AMA-24 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-24 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-24 should be added at a point in the processing system where there will be sufficient time and add agitation for good mixing and dispersion. Add AMA-24 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 impaterial to be added for the preservation of any given formulation will depend on the components and local storage time and conditions. Doasge rates should be determined by actual tests.

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.

STORAGE AND DISPOSAL

PROHIBITIONS:

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE AND DISPOSAL. OPEN DUMPING IS PROHIBITED.

TESTICIDE DISPOSAL:

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved State procedures under Subtitle C of the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL:

Metal Containers:

Triple rinse (or equivilant). Then other for recycling of recepting the proceedings TED in a sanitary landfill, or by other approved State and local proceedings TED in $L_{1/3}$ COMMITS Triple rinse (or equivilant). Then offer for recycling or reconditioning, or puncture and dispose of In LAAL A Lands

GENERAL:

CONSULT FEDERAL, STATE, OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNA-TIVE PROCEDURES. $\mathbf{1}_{i}$ 11

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AMA-24

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PRECAUTIONARY STATEMENTS

HAZARD TO HUMANS AND DOMESTIC ANIMALS

DANGER. KEEP OUT OF REACH OF CHILDREN. Consider 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. 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 quantites of water. Avoid alcohol. Call a physician immediately.

Note to Physician: Propable 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 in marine and/or estuarine oil fields. Do not discharge treated effulent into lakes, streams, ponds or public waters unless in accordance with NPDES Permit. For guidelines contact your regional office of the Environmental Protection Agency.

FOOD AND DRUG REGULATIONS :

The ingredients in AMA-24 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 21CFR176.300.

SHIPPING POINT :

PACKAGING :

Bulk

55 gallon drums

350 gallon portabins

WEIGHT PER GALLON

Marictta, Georgia

9.7 pounds per gallon

VININGS CHEMICAL COMPANY 2555 CUMBERLAND PARKWAY SUITE 200 ATLANTA, GEORGIA 30339

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In EPA Letter Date & with CC NOV 0 4 1982 Fish al Inasticide. Under the Federal In-osticide, Funnicide, and Redenticale Act N'GS Semical Company us amended, for the pesticide registered under EPA Reg. No. ATLANTA, GEORGIA (Antimicrobial Agent) (FOR INDUSTRIAL USE ONLY) **ACTIVE INGREDIENT:** INERT INGREDIENTS: Total 100% \$d **KEEP OUT OF REACH OF CHILDREN** DANGER SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS EPA REGISTRATION NO. 9386-3 EPA ESTABLISHMENT NO. 9386-GA-1 Manufactured By **VININGS CHEMICAL COMPANY** MARIETTA, GEORGIA 30066

ACCEPTED with COMMENTS in EPA Letter Dates

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Metal Containers:

Triple rinse (or equivilant). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

GENERAL:

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DIRECTIONS FOR USE :

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

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9.7 lbs. per gallon VININGS CHEMICAL COMPANY Letter Date ACOMPANYCOMMENTS Dated: Atlanta, Georgia 30339 In LPA Lever Jacob

04 NOV 1982

Vinings Chemical Company 2555 Cumberland Parkway Suite 200 Atlanta, GA 30339

Attention: R. V. Minton

Gentlemen:

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Subject: Label and Tachnical Data Sheet For: ANA 24 EPA Registration No. 9386-3 Amendment Application Dated June 22, 1982 and Submission of June 30, 1982

The avendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A), is acceptable, provided that you:

- 1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Correct the spelling of "probable" in the Note to Physician statement on the label and Technical Data Sheet. Also, correct the spelling of "effluent" in the Environmental Maxards Statement on the label and Technical Data Sheet.
- 3. Submit five (5) copies of your final printed labeling before you release the product for shippent.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFWA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

John H. Lee Product Manager (31) Disinfectants Branch Registration Division (TS-767C)

Enclosure

TS-767C:J. Lee:DCR-03502:WANG-0802C:1wy:Raven:479-2013:10/22/82