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ACCEPTED

JUL 15 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. **9386-13**

AMA-35D-P
(ANTIMICROBIAL AGENT FOR USE IN AQUEOUS
SUSPENSIONS & OILFIELD OPERATIONS)

Vinings' AMA-35D-P is a nearly odorless, dustless, free flowing crystalline solid. It is registered for use as a preservative of industrially prepared water based suspensions (pigment slurries, adhesives, polymers and starches), and as an antimicrobial in oilfield operations.

COMPOSITION:

Active ingredient: Tetrahydro-3,5-dimethyl-2H-1,3,5,-thiadiazine-2-thione-99%	
Inert ingredient:	1%
	TOTAL 100%

TYPICAL PHYSICAL PROPERTIES:

Physical form:	Crystalline solid	Solubility: Water-0.12%
		Acetone-19.5%
Melting point:	106°C	Trichloroethylene-26%
Color:	White	Ethylene chloride-21%

DIRECTIONS FOR USE:

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

FOR USE AS A PRESERVATIVE OF INDUSTRIALLY PREPARED WATER BASED SUSPENSIONS (PIGMENT SLURRIES, ADHESIVES, POLYMERS, AND STARCHES), AND AS AN ANTIMICROBIAL IN OILFIELD OPERATIONS.

FOR INDUSTRIALLY PREPARED WATER BASED SUSPENSIONS (PIGMENT, SLURRIES, ADHESIVES, POLYMERS, AND STARCHES) USE:

FOR THE PRESERVATION OF CLAY SLURRIES, ADHESIVES, COATINGS AND HIGH VISCOSITY SUSPENSIONS: For preservation of slurries and high viscosity suspensions, AMA-35D-P 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-35D-P 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.

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-35D-P to the cleaned systems or when growth is first noticed according to the following schedule.

INITIAL DOSAGE: Apply 9.5 to 18.9 ounces (7.2-14.4ppm) of AMA-35D-P per each 10,000 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 1.5-9.5 ounces (1.2-7.2ppm) of AMA-35D-P per 10,000 gallons of water in the system as a continuous treatment daily or every 3 days or as required to maintain control.

FOR OILFIELD OPERATIONS USE:

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 pounds of Vinings' AMA-35D-P needed to produce a concentration of 500 ppm (0.18 lb/bbl) Vinings' AMA-35D-P in the drilling mud circulation system. For example, 175 pounds of Vinings' AMA-35D-P per 1000 barrels of drilling fluid will produce the proper concentration.

For best results, add Vinings' AMA-35D-P 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-35D-P to maintain the proper concentration. Because of the wide variation in drilling mud composition and bacterial contamination, greater or lesser amounts of the antimicrobial agent 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 pounds of Vinings' AMA-35D-P needed to produce a concentration of approximately 200 ppm Vinings' AMA-35D-P. For example, 1.67 pounds of Vinings' AMA-35D-P per each 1000 gallons of total volume will produce this dilution.

150 ppm Vinings' AMA-35D-P added each week is recommended to maintain bacterial control. This may be accomplished by adding 1.25 pounds of Vinings' AMA-35D-P to each 1000 gallons of total volume.

TECHNICAL ASSISTANCE:

The service of Vinings' engineers is available at any time, upon request, to assist in solving problems pertaining to uses 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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HANDLING PROCEDURES:

STABILITY: Avoid contact with strong acids: CS₂ and/or H₂S may be formed. Hazardous polymerization will not occur.

PREPARATION OF SOLUTIONS: Add 86 lbs. of 50% caustic to 20 gallons of water. Make sure that the temperature does not go above 80° F or below 70° F. Then add AMA-35D-P (100 lbs) slowly with stirring.

PRECAUTIONARY STATEMENTS:

CAUTION

HAZARDS TO HUMANS & DOMESTIC ANIMALS

AMA-35D-P MAY CAUSE SKIN AND EYE IRRITATION, AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. WASH THOROUGHLY AFTER HANDLING.

STATEMENT OF PRACTICAL TREATMENT:

IF SWALLOWED: Drink plenty of water and induce vomiting. Call physician immediately.

SKIN CONTACT: Wash with mild soap and water. Rinse with copious amounts of water.

EYE CONTACT: Wash eyes with water. Consult a physician.

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

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 into lakes, streams, ponds or public waters unless in accordance with NPDES permit. For guide lines contact your regional office of the Environmental Protection Agency.

STORAGE AND DISPOSAL:

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

STORAGE: Protect from temperatures in excess of 140°F. Keep container closed when not in use. If contents are spilled or leaked due to container damage, collect 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: Fiber Drums with Liners - Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by state and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

EFFICACY:

The following information is intended only to indicate the broad-spectrum activity of the product. This information must not be interpreted as having any relevance to the use pattern recommended, effective dosages, activity against specific microorganisms, or any other implications of effectiveness.

Laboratory testing has shown AMA-350-P effective against the following bacteria at the ppm indicated:

<u>BACTERIA</u>	<u>PPM</u>
<u>Bacillus cereus</u>	100 - 110
<u>Pseudomonas fluorescens</u>	80 - 90
<u>Desulfovibrio desulfuricans</u>	5 - 10

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FOOD AND DRUG REGULATIONS:

The ingredients in AMA-350-P are cleared by the United States Food and Drug Administration for use as a component of food grade packaging under the following references:

21 CFR 176.105, 21 CFR 176.230 and 21 CFR 176.300.

SHIPPING POINT:

Marietta, Georgia

PACKAGING:

200 lb Fiber drums

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