

# AMA<sup>®</sup>-35D-P

ANTIMICROBIAL AGENT FOR INDUSTRIAL USE

Ingredient:

Tetrahydro-3,5-dimethyl-2H-1,3,5-thiadiazine-2-thione

98%

Ingredients

TOTAL

ACCEPTED  
MAY 16 1995  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 9386-13

KEEP OUT OF REACH OF CHILDREN

CAUTION

### STATEMENT OF PRACTICAL TREATMENT

- First Aid:** Flush with plenty of water for at least 15 minutes. See a physician.
- Eye:** Wash affected area thoroughly with soap and water. Get medical attention if irritation develops. Remove and wash contaminated clothing before reuse.
- Inhalation:** Call a physician immediately. Induce vomiting by giving two glasses of warm water and touching back of throat. Repeat until vomit is clear. Never give anything by mouth to an unconscious person.
- First Aid:** Assist respiration as needed. Get medical attention as needed for irritation.

REGISTRATION No. 9386-13

EPA ESTABLISHMENT No. 9386-GA-1

**MANUFACTURED BY  
VININGS INDUSTRIES, INC.  
MARIETTA, GEORGIA 30062**

### CIRCULATING COOLING WATER SYSTEMS FOR CONTROL OF ALGAL AND SLIME FORMING BACTERIA:

Dozages for industrial recirculating water systems will depend upon the conditions of the system prior to treatment. Systems which are heavily contaminated should be cleaned first. Apply 35D-P to the cleaned system or when growth is first noticed according to the following schedule.

**INITIAL DOSAGE:** Apply 9.5 to 18.9 ounces of AMA<sup>®</sup>-35D-P per each 10,000 gallons of water in the system. This dosage may be as a continuous treatment or applied once, twice, or three times weekly, or as required to control the growth of slime forming bacteria.

**MAINTENANCE DOSAGE:** When microbial control is evident, add 1.5 to 9.5 ounces of 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.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** May cause irritation of skin, eyes and mucous membranes. Do not breathe dust. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

### 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 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.

### STORAGE AND DISPOSAL DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL OF THIS PRODUCT.

**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 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 directions, 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.

03/28/95

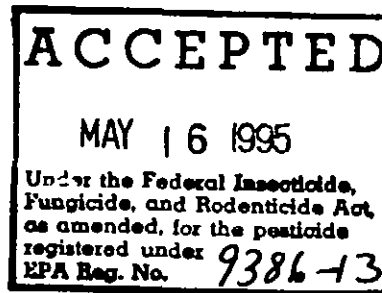
47 LBS./CUBIC FT

PM 31  
9386-13  
1995

1995

**COMPOSITION:**

Active ingredient: Tetrahydro-3,5-dimethyl-2H-1,3,5,-thiadiazine-2-thione- 98%  
Inert ingredient: 2%  
TOTAL 100%



**TYPICAL PROPERTIES:**

Appearance: White crystalline solid	Density: 47 lb/ft <sup>3</sup>
Melting Point: 221°F	Solubility: Water-0.12%
Odor: Mild Sulfide Odor	Acetone-19.5%
	Trichloroethylene-26%
	Ethylene Chloride-21%

**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<sup>®</sup>-35D-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

**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 OIL FIELD 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 (7.2-14.4 ppm) 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.

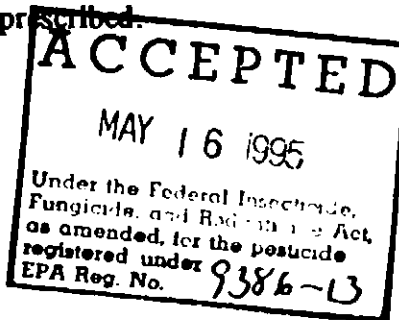
**SUBSEQUENT DOSAGE:** When microbial control is evident add 1.5-9.5 ounces (1.2-7.2 ppm) of AMA®-35D-P per 10,000 gallons of water in the system as a continuous treatment daily or every 3 days or as required to maintain control.

**FOR OIL FIELD OPERATIONS USE:**

**OIL FIELD DRILLING MUDS AND WORK OVER 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.



**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 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.

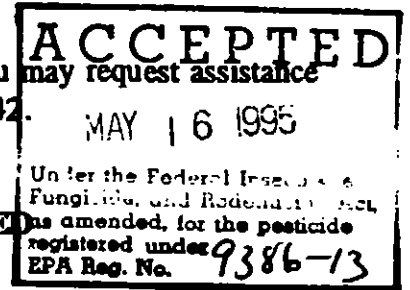
**HANDLING PROCEDURES:**

**STABILITY:** Avoid contact with strong acids: CS<sub>2</sub> and/or H<sub>2</sub> may be formed. Hazardous polymerization will not occur.

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

**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:**  
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**PRECAUTIONARY STATEMENTS:**  
**HAZARD TO HUMANS & DOMESTIC ANIMALS**

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

5 8 5

**STATEMENT OF PRACTICAL TREATMENT:**

**IF ON SKIN:** Wash with mild soap and water. Rinse with copious amounts of water.  
**IF IN EYES:** Wash eyes with water. Consult a physician.  
**IF SWALLOWED:** Drink plenty of water and induce vomiting. Call physician immediately.

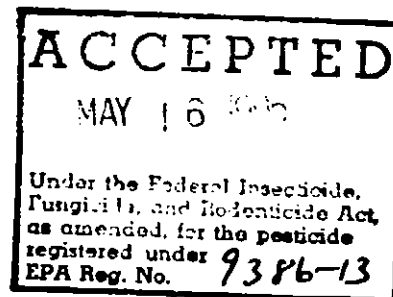
**NOTE TO THE PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

**ENVIRONMENTAL HAZARDS:**

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**FOOD AND DRUG REGULATIONS:**

The ingredients in AMA®-35D-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.

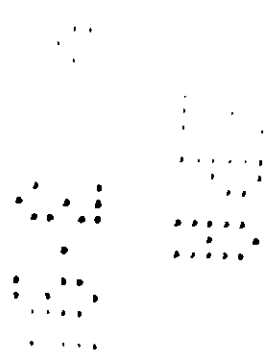


**SHIPPING POINT:**

Marietta, Georgia

**PACKAGING:**

200 lb fiber drums



5