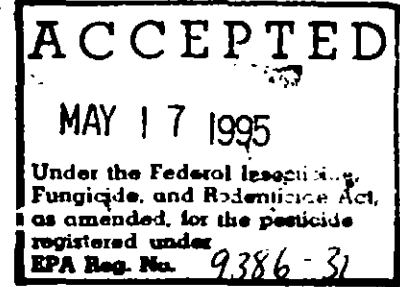


TECHNICAL DATA

AMA®-10W



DESCRIPTION:

AMA®-10W is an excellent, low cost liquid antimicrobial agent.

COMPOSITION:

Active Ingredient: Methylene bis(thiocyanate)	10%
Inert Ingredients:	90%
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:	4.3	Viscosity:	900 cps (Brookfield)
Freeze Point:	18°F		

DIRECTIONS FOR USE:

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

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®-10W per 1,000 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®-10W per 1,000 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.

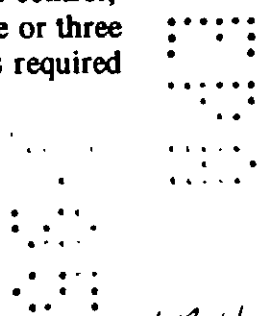
Apply at a point in the system where uniform mixing and even distribution will occur, such as the cooling tower basin or sump.

AIR WASHER SYSTEMS: FOR CONTROL OF BACTERIA AND FUNGI:

Preclean the system with detergent and allow air washer to run with fan on for two hours. Flush and check nozzles, manually cleaning as necessary. Add 10 to 40 ppm of AMA®-10W (0.01 to 0.04 gallons per 1,000 gallons of water) one to three times per week or as needed to maintain control. Add AMA®-10W to a point in the system where uniform mixing and even distribution will occur.

BREWERY PASTEURIZER WATER: FOR CONTROL OF BACTERIA, YEASTS AND FUNGI:

Dosages of AMA®-10W will depend upon the condition of the system. Systems which are heavily contaminated should be cleaned first. AMA®-10W should be added to the first section of the pasteurizer. The initial dose should be 20 to 40 ppm of AMA®-10W (0.02 to 0.04 gallons per 1,000 gallons water) once or twice weekly, or as needed to obtain control of slime forming organisms. To maintain control, add 10 to 30 ppm of AMA®-10W (0.01 to 0.03 gallons per 1,000 gallons of water) once, twice or three times weekly, or as needed. Addition of AMA®-10W may be continuously or intermittently, as required to control growth.



294

AMA®-10W
Page 2

PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME-FORMING AND/OR SPOILAGE BACTERIA:

AMA®-10W 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®-10W per ton of paper produced.

INTERMITTENT FEED METHOD: Apply 3.5 to 5.0 fluid ounces of AMA®-10W 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®-10W 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.

SOLUTIONS AND EMULSIONS: For the preservation of solutions, emulsions, adhesives and other aqueous liquid products, the addition of 75 to 750 ppm of AMA®-10W is effective. Add AMA®-10W at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. The exact amount of AMA®-10W to be added for the preservation of given formulation will depend on the components as well as local storage time and condition. Dosage rates should be determined by actual tests. This product is not cleared for use in the manufacture of adhesives that may come in contact with food.

FUEL OIL STORAGE TANKS: For control of bacterial and fungal growth in distillate fuel oil storage tank bottom water add a slug dose of 50 - 100 ppm AMA®-10W. Repeat as needed to gain control. To maintain control, feed 25 - 50 ppm AMA®-10W once a month or as needed. Should disposal of tank bottom water become necessary, wait at least 48 hours after last AMA®-10W treatment before draining tank. Do not discharge water directly to ground where it can enter streams, lakes or ponds.

TECHNICAL ASSISTANCE:

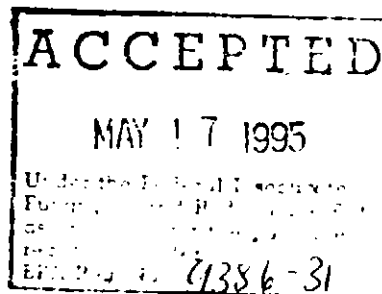
Our technical staff is available to assist in the application of Vinings' products. You may request assistance through your sales representative or by contacting Vinings Industries at 800-347-1542.

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.



2

STORAGE AND DISPOSAL CONT:

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

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.

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:

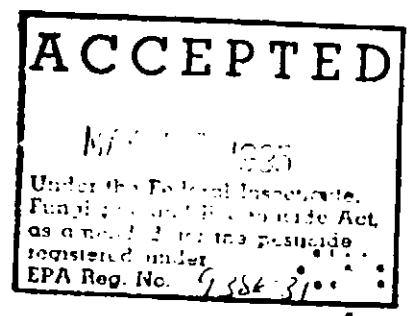
Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS:

This pesticide is toxic to fish. ~~Do not discharge treated effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment authority. For guidance contact your State Water Board or Regional Office of the Environmental Protection Agency.~~ *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



FORM: AMA10W.TDS
DATE: 01/95
REVISION: 5

DIRECTIONS FOR USE:

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

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®-10W 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®-10W 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.

AIR WASHER SYSTEMS: For Control of Bacteria and Fungi: Pre-clean the system with detergent and allow air washer to run with fan on for two hours. Flush and check nozzles, manually cleaning as necessary. Add 10 - 40 ppm of AMA®-10W (0.01 to 0.04 gallons per 1,000 gallons of water) one to three times per week or as needed to maintain control. Add AMA®-10W to a point in the system where uniform mixing and even distribution will occur.

BREWERY PASTEURIZER WATER: For Control of Bacteria, Yeasts and Fungi: Dosages of AMA®-10W will depend upon the condition of the system. Systems which are heavily contaminated should be cleaned first. AMA®-10W should be added to the first section of the pasteurizer.

The initial dose should be 20 to 40 ppm of AMA®-10W (0.02 to 0.04 gallons per 1,000 gallons of water) once or twice weekly, or as needed to obtain control of slime forming organisms. To maintain control, add 10 to 30 ppm of AMA®-10W (0.01 to 0.03 gallons per 1,000 gallons of water) once, twice or three times weekly, or as needed. AMA®-10W may be added continuously or intermittently, as required to control growth.

PAPER MILL SLIME CONTROL: FOR THE CONTROL OF SLIME FORMING AND/OR SPOILAGE BACTERIA: AMA®-10W 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®-10W per ton of paper produced.

INTERMITTENT FEED METHOD: Apply 3.5 to 5.0 fluid ounces of AMA®-10W per ton (dry basis) of pulp or paper for 2 hours every 8 hours. Badly fouled systems must be cleaned before initial treatment.

CONTINUOUS FEED METHOD: Apply 2 to 4 fluid ounces of AMA®-10W 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.

SOLUTIONS AND EMULSIONS: For the preservation of solutions, emulsions, adhesives and other aqueous liquid products, the addition of 75 to 750 ppm of AMA®-10W is effective. Add AMA®-10W at a point in the processing system where there will be sufficient time and agitation for good mixing and dispersion. The exact amount of AMA®-10W to be added for the preservation of given formulations will depend on the components as well as local storage time and condition. Dosage rates should be determined by actual test. This product is not cleared for use in the manufacture of adhesives that may come in contact with food.

AMA®-10W

(ANTIMICROBIAL AGENT)

Active Ingredient:

Methylene bis (thiocyanate)

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 for at least 15 minutes. Get medical attention.

If ingested: Do not induce vomiting. Get medical attention.

If on skin: Remove contaminated clothing and immediately wash with water for at least 15 minutes. If irritation persists get medical attention. Wash clothing before reuse.

Note to Physicians: Probable mucosal damage may contraindicate the use of this product.

See Side Panel For Additional Precautionary Statements

EPA REGISTRATION No. 9386-31

EPA ESTABLISHMENT No. 100-100-01

MANUFACTURED BY
VININGS INDUSTRIES
MARIETTA, GEORGIA 30067

METAL WORKING FLUIDS: For the control of fungus and bacteria in fluids that contain water, add 100 to 400 ppm of AMA®-10W (0.01 to 0.04 gallons per 1,000 gallons of fluid in the collection tank is recommended. To insure complete dispersion, add AMA®-10W after adding AMA®-10W to insure complete dispersion.

FUEL OIL STORAGE TANKS: For control of bacterial and fungal growth in fuel oil storage tank bottom water add a slug dose of 50 - 100 ppm of AMA®-10W to gain control.

To maintain control, feed 25 - 50 ppm AMA®-10W once a month or as needed. Should disposal of tank bottom water become necessary, wait at least 24 hours after AMA®-10W treatment before draining tank. Do not discharge tank bottom water where it can enter streams, lakes or ponds.