

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUL 31 1995

Zep Manufacturing Co.
P.O. BOX 2015
Atlanta, GA 30301

Attention: Robert G. Beach
Scientist Product Development

Subject: Zep Amine A
EPA Registration No. 1270-171
MOU Compliance Amendment dated August 10, 1995

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, will be acceptable provided that you make the labeling change listed below before you release the product.

1. Expand the directions to include a disinfection contact time of at least 10 minutes.

A stamped copy of your labeling is enclosed for your records. Submit five (5) copies of the final label prior to releasing the product for marketing.

If you have any questions concerning this letter, please contact Wanda Mitchell at (703) 305-6141.

Sincerely,



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

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

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**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER**

Corrosive. Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Protect eyes and skin when handling. Harmful if swallowed. Avoid contamination of food. Avoid breathing spray mist.

ENVIRONMENTAL HAZARDS:

This product is toxic to fish. 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 into sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE:

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

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage and 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. 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. Small plastic containers, after rinsing and puncturing as above, may be disposed of by incineration, or, if approved by state and local authorities, by burning. If burned, stay out of smoke.

HOSPITALS, CLINICS AND NURSING HOMES: Thoroughly clean and rinse surfaces. Then disinfect and deodorize hard surfaces such as floors, garbage pails, bedpans, sink tops, telephones, restrooms, urinals, bed frames, and equipment by mopping or wiping with solution of 3-1/2 oz. per 5 gallons of water, (546 ppm active quaternaries), thoroughly wetting all surfaces. Effective against *Staphylococcus aureus*, *Salmonella typhosa*, and *Pseudomonas aeruginosa*, PRD-10, when used as directed.

SANITIZATION OF SURFACES SUCH AS FOOD PROCESSING EQUIPMENT, DAIRY EQUIPMENT, FOOD UTENSILS, DISHES, SILVERWARE, GLASSES, SINK TOPS, COUNTER TOPS, REFRIGERATED STORAGE AND DISPLAY EQUIPMENT AND OTHER NON-POROUS FOOD CONTACT SURFACES IN CANNERIES, MEAT PACKING PLANTS, DAIRIES, AND OTHER FOOD INDUSTRIES - Equipment and utensils shall be thoroughly preflushed or prescrapped and, when necessary, presoaked to remove gross food particles and soils.

1. Thoroughly wash equipment and utensils in a hot detergent solution.
2. Rinse utensils and equipment thoroughly with clean water.
3. Sanitize equipment and utensils by immersion in a 1 oz. per 4 gallon solution of ZEPAMINE A (195 ppm active quaternaries) for at least 60 seconds.
4. For equipment and utensils too large to sanitize by immersion, apply a 1 oz. per 4 gallon solution of ZEPAMINE A (195 ppm active quaternaries) by rinsing, spraying or swabbing until thoroughly wetted.
5. Allow sanitized surfaces to drain and air dry. Do not rinse.

KITCHENS AND CAFETERIAS: Thoroughly clean and rinse all surfaces. Disinfect porous and semi-porous surfaces such as wood-top tables, cutting blocks, and steam table boards by wiping with a solution of 1 oz. per gallon of water (780 ppm active quaternaries), thoroughly wetting all surfaces. Rinse all food contact surfaces treated with ZEPAMINE A solution at this level with potable water before reuse.

ZEPAMINE A

DISINFECTANT — DEODORANT — SANITIZER

ZEPAMINE A is a concentrate and should be diluted with water before using. Fulfills the criteria of Appendix F of the Grade "A" Pasteurized Milk Ordinance 1965 Recommendations of the U. S. Public Health Service in waters up to 750 ppm of hardness calculated as CaCO₃ when tested by the A. O. A. C. Germicidal and Detergent Sanitizers — Official Method.

Guaranteed Minimum Phenol Coefficients (AOAC Method):

- Staphylococcus aureus* 90
- Salmonella typhosa* 60

ZEPAMINE A is effective as a deodorant, killing most organisms that cause odors. Authorized by USDA for use in federally inspected meat and poultry plants.

ACTIVE INGREDIENTS:

- n-Alkyl (60% C₁₄, 30% C₁₆, 5% C₁₂, 5% C₁₀) Dimethyl benzyl ammonium chlorides 5.0%
- n-Alkyl (68% C₁₂, 32% C₁₄) Dimethyl ethylbenzyl ammonium chlorides 5.0%
- INERT INGREDIENTS: 90.0%
- Total 100.0%

DANGER

KEEP OUT OF REACH OF CHILDREN STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

IF ON SKIN: Immediately flush skin with plenty of water for at least 15 minutes. Remove and wash contaminated clothing before reuse.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

NOTE TO PHYSICIAN:

Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed. E.P.A. REG. NO. 1270-171 E.P.A. EST. NO. 1270-GA-1

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY

PROD. #1823

895C

Manufactured By:
ZEP MANUFACTURING COMPANY
Division of National Service Industries, Inc.
ATLANTA, GA 30301

CLEAN ACROSS AMERICA AND THROUGHOUT THE WORLD

ACCEPTED
with COMMENTS
in EPA Letter Dated:

OCT 31 1985

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 1270-171

BEST AVAILABLE

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**PRECAUTIONARY STATEMENTS
HARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER**

Eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. When handling. Harmful if swallowed. Avoid contamination of food. Avoid

ENVIRONMENTAL HAZARDS:
to fish. Do not discharge effluent containing this product into lakes, streams, oceans or other waters unless in accordance with the requirements of the National Discharge Elimination System (NPDES) permit and the permitting authority. Do not discharge effluent containing this product into navigable waters without previously notifying the local sewage treatment plant. For more information, contact your State Water Board or Regional Office of the EPA.

DIRECTIONS FOR USE:
Federal Law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL
Keep water, food, or feed by storage and disposal. Pesticide wastes are to be properly disposed of if excess pesticide, spray mixture, or rinsate is a danger to humans or animals. If these wastes cannot be disposed of by use according to label directions, they should be disposed of by use according to label directions of your State Pesticide Environmental Control Agency, or the Hazardous Waste Management and Emergency Response (HWEM) Division of the nearest EPA Regional Office for guidance. Triple rinse (or more) for recycling or conditioning, or puncture and dispose of in a sanitary landfill, or by other means approved by state and local authorities. Small plastic containers, including as above, may be disposed of by incineration, or, if approved by your local authorities, by burning, burned, stay out of smoke.

CHILDREN AND NURSING INFANTS: Thoroughly clean and rinse surfaces. Then mop or wipe hard surfaces such as floors, garbage pails, bedpans, sink tops, tubs, urinals, bed frames and equipment by mopping or wiping with solution of 1/2 gallon of water, (30 ppm active quaternaries), thoroughly wetting all surfaces against Staphylococcus aureus, Salmonella typhosa, and Pseudomonas aeruginosa, when used as dirt.

WASH SURFACES SUCH AS FOOD PROCESSING EQUIPMENT, DAIRY EQUIPMENT, UTENSILS, DISHES, SILVERWARE, GLASSES, SINK TOPS, REFRIGERATED STAGE AND DISPLAY EQUIPMENT AND OTHER EQUIPMENT IN CONTACT SURFACES IN CANNERIES, MEAT PACKING PLANTS, AND OTHER FOOD INDUSTRIES - Equipment and utensils shall be thoroughly cleaned and, when necessary, presoaked to remove gross food particles and

thoroughly wash equipment utensils in a hot detergent solution. Rinse utensils and equipment thoroughly with clean water. Wash equipment and utensils by immersion in a 1 oz. per 4 gallon solution of ZEPAMINE A (195 ppm active quaternaries) for at least 60 seconds. Wash equipment and utensils large to sanitize by immersion, apply a 1 oz. per 4 gallon solution of ZEPAMINE A (195 ppm active quaternaries) by rinsing, spraying and mopping until thoroughly wet.

Sanitized surfaces to clean and air dry. Do not rinse.
SAFETY: Thoroughly clean and rinse all surfaces. Disinfect porous surfaces such as wood tables, cutting blocks, and steam table boards by mopping with solution of 1 oz. per gallon water (780 ppm active quaternaries), thoroughly wetting all surfaces. Rinse all food contact surfaces treated with ZEPAMINE A solution at this time before reuse.

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in EPA Letter Dated:

OCT 31 1985

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide
registered under EPA Reg. No. 1270-171

DIRECTIONS FOR USE (CONT'D.):

AS A DEODORANT: Mop or spray on a solution containing 1 oz. per gallon of water (780 ppm active quaternaries) to control odors in public conveyances such as busses, trains, or airplanes; in waiting rooms, bathrooms, and hospital wards.
This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

FOR ALGAE CONTROL IN SWIMMING POOLS:
Initial Dose: 1 gallon per 50,000 gallons of water.
Maintenance Dose: 1 quart per 50,000 gallons of water.

Initial dose is used when filling pool at beginning of swimming season. If pool has visible algae growth, treat with initial dose. Vacuum pool after 24 hours to remove algae debris. If visible algae are still present or reappear, repeat this treatment procedure as necessary. When pool is free of visible algae, use the recommended maintenance dose. Maintenance dose should be added at 3 to 5 day intervals. If high temperatures prevail or pool has unusually heavy use, add maintenance dose more frequently. If make-up water is added at the rate of more than 10% per week of pool capacity, add 1 quart of ZEPAMINE A for each 10,000 gallons of fresh make-up water added per week.

ZEPAMINE A is compatible with most commonly used swimming pool chemicals, but should not be mixed with soap or other cleaners or premixed with other water treating chemicals.
FOR ALGAE CONTROL IN INDUSTRIAL RECIRCULATION WATER COOLING SYSTEMS: Apply at a point in the system where the product will be uniformly mixed. Begin treatments when the system is in jeopardy of becoming affected or after cleaning system whose efficiency is already impaired.

Initial Dose: 1 to 2 gallons to each 5,000 gallons of water contained in the system. Repeat until control is evident.
Periodic Dose: When microbial control is evident, add 1 to 3 quarts to each 5,000 gallons of water in the system every 7 days or as needed to maintain control.

For best results, clean heavily contaminated systems before treatment with this product. If soap or anionic detergent is used, rinse thoroughly before charging with ZEPAMINE A. ZEPAMINE A is compatible with virtually all corrosion inhibition additives, but should not be used in the presence of soap or other anionic detergent.

FOGGING APPLICATION: Use a Zepomister Electric Sprayer or other suitable unit for fogging applications as an adjunct to acceptable manual cleaning and disinfecting procedures for room surfaces. Fill it with a solution containing 2-1/2 oz. per gallon of water (1950 ppm active quaternaries). Place the sprayer in the center of the room and at a height midway between the ceiling and floor. Turn the nozzle upward and set the fogging rate at maximum. This dispenses one gallon of solution in 15 minutes. Open closets, cabinets, and the like, and close doors, windows, and vents.

All humans and animals must be removed from the room while fogging. Fog until all surfaces in the room have been wetted — 15 minutes or longer depending upon its size. Allow two hours after the unit has stopped before opening and entering the room, then proceed to manually clean and disinfect room surfaces as directed above.

All food contact surfaces treated with this solution must be rinsed with potable water prior to reuse.

BEST AVAILABLE COPY