

APR 08 1991

Angus Chemical Company
2211 Sanders Road
Northbrook, IL 60062

Attention: Lori Quinn

Gentlemen:

Subject: BioBan P-1487T
EPA Registration No. 48301-26
Your Submission Dated February 15, 1991
EPA Received Date February 15, 1991

The amendment referred to above, submitted in connection with registration under FIFRA is acceptable provided that you release the product for shipment.

However, make the following label revision:

- In the "In General Use" section, revise the second sentence to read: Treatment may be performed . . . to attain the proper concentration of BioBan P-1487T.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA 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.

BEST AVAILABLE COPY

61734;I;Leavy;L31-16;KEVRIC;3/22/91;4/20/91;EK;WO;DD;CL

CONCURRENCES

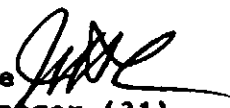
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If you have any questions concerning this letter, please contact
Karen Leavy at (703) 557-3966.

Sincerely yours,

John H. Lee 
Product Manager (31)
Antimicrobial Program Branch
Registration Division (H7505C)

Enclosure

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DRAFT LABEL - February 15, 1991

BIOBAN® P-1487T
Antimicrobial Agent (For Tankside Addition)

Active Ingredients:	
4-(2-Nitrobutyl)Morpholine	31.5%
4,4'-(2-Ethyl-2-nitrotrimethylene)dimorpholine	9.0%
Inert Ingredients:	<u>59.5%</u>
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER
Precautionary Statements
Hazards to Humans and Domestic Animals

CORROSIVE. Causes eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Wear goggles or face shield and rubber gloves when handling. May cause allergic skin reaction. Wash thoroughly with soap and water after handling.

Statement of Practical Treatment

If in eye(s), immediately flush eye(s) with plenty of water for at least 15 minutes. See a physician. If swallowed, do not induce vomiting; drink egg whites or gelatin solution. If these are not available, drink large amounts of water. Call a physician. If contact with skin; immediately flush skin with water for 15 minutes. Remove and wash contaminated clothing before reuse. Call a physician.

Note to Physician

Probable mucosal damage may contraindicate the use of gastric lavage.

Environmental Hazards

Do not discharge 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 plant authority. For guidance, contact your State Water Board or Regional Office of Environmental Protection Agency.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 08 1991

Under Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, and the pesticide
Registration Act, EPA Reg. No.
48301-26

EPA Reg. No. 48301-26
EPA Est. No. 48301-LA-01

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Under the Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
48301-76

Storage and Disposal

Pesticide Disposal

Do not contaminate water, food, or feed by storage or disposal. Keep away from heat. 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.

Container Disposal

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.

DIRECTIONS FOR USE

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

FOR USE IN METALWORKING FLUIDS

BIOBAN P-1487T is recommended for use in soluble oils, semi-synthetic, and synthetic fluids. It should be added directly to the sump (with agitation). A dose of 1,000 - 2,000 ppm is recommended for initial treatment; higher levels up to 2,500 ppm, but no greater for fouled systems. After addition of BIOBAN P-1487T, the system should be circulated for about one hour before shut-down.

In Diluted Fluids: A concentration of 1,000 to 2,500 ppm of BIOBAN P-1487T in the fluid is sufficient to control gross microbial growth. For example, add 1.0 lb of BIOBAN P-1487T to 1,000 lb of fluid to obtain a dose level of 1,000 ppm in the fluid.

Maintenance Dosage: Add 500 - 1,000 ppm of BIOBAN P-1487T to maintain control of the system.

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Draft Label - 2/15/91
BIOBAN P-1487T
Page 3

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FOR USE IN HYDROCARBON PRESERVATION

To control the growth of problem microorganisms associated with the fuel.

In general use. Add BIOBAN P-1487T to storage tanks or fuel tanks for control of microbial growth in diesel oil, fuel oil, gasoline, or kerosene. Treatment may be performed by slug dosage or by intermittent metering to attain a concentration of 300 - 2,200 ppm of BIOBAN P-1487T.

For storage above water. Add 2.2 gallons of BIOBAN P-1487T to each 1,000 gallons of water in the bulk storage system to achieve a concentration of approximately 1,000 ppm. To facilitate mixing, dissolve each gallon of BIOBAN P-1487T in 100 gallons of water and add this solution directly to the water phase in the tank with minimal agitation.

For storage in tanks without intentional water. Add 0.28 - 2.2 gallons of BIOBAN P-1487T directly to each 1,000 gallons of hydrocarbon in the system to obtain a concentration of approximately 550 - 2,200 ppm.

In a fuel-treatment pre-mix. BIOBAN P-1487T may be mixed with other fuel additive for addition to fuel. The end user must add sufficient BIOBAN P-1487T to the pre-mix to provide 550 - 2,200 ppm of BIOBAN P-1487T in the treated fuel.

FOR USE IN ADHESIVES AND INDUSTRIAL EMULSIONS (NON-FOOD USE)

For control of microbial contamination in resin, latex or other water based emulsions, asphalt emulsions or to inhibit the growth of microorganisms in adhesives, add 0.05 - 0.2 % (500 - 2,000 ppm) BIOBAN P-1487T. The addition of BIOBAN P-1487T should be made as a final step in the manufacturing process after any heating and when the product has cooled to below 110°F.

FOR USE IN INKS (NON-FOOD USE)

To inhibit the growth of microorganisms during storage or use of solvent-based inks.

In-can preservation: Add BIOBAN P-1487T in the final step of the manufacturing process, after any heating and when the product has cooled to below 110°F. BIOBAN P-1487T should be dosed at 500 - 2,000 ppm based on the final formulation volume.

BIOBAN P-1487T may be added press-side at a concentration of 500 - 2,000 ppm.

FOR USE IN DIE CAST LUBRICANTS AND MOLD-RELEASE AGENTS

To control the growth of microorganisms in fluids used as lubricants in metal die cast applications and mold-release agents used in the manufacture of plastics.

BIOBAN P-1487T is recommended for use in soluble oils, semi-synthetic, and synthetic fluids. It should be added directly to the sump (with agitation). A dose of 1,000 - 2,000 ppm is recommended for initial treatment; higher levels up to 2,500 ppm, but no greater for fouled systems. After addition of BIOBAN P-1487T, the system should be circulated for about one hour before shut-down.

In Diluted Fluids: A concentration of 1,000 to 2,500 ppm of BIOBAN P-1487T in the fluid is sufficient to control gross microbial growth. For example, add 1.0 lb of BIOBAN P-1487T to 1,000 lb of fluid to obtain a dose level of 1,000 ppm in the fluid.

Maintenance Dosage: Add 500 - 1,000 ppm of BIOBAN P-1487T to maintain control of the system.

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