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BIOBAN P-1487T

ANTIMICROBIAL AGENT (For Tankside Addition)

ACCEPTED
JUN 28 1993
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the products registered under EPA Reg. No. 48301-26

ACTIVE INGREDIENTS:	
4-(2-Nitrobutyl)morpholine	34.2%
4,4'-(2-Ethyl-2-nitrotrimethylene)dimorpholine	0.9%
INERT INGREDIENTS	
	64.9%
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.
HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN REACTION.
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.

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.

ANGUS Chemical Company assumes no responsibility when this product is not used in accordance with the instructions and information contained on this label.

DANGER

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.

SEE SIDE PANEL FOR
ADDITIONAL PRECAUTIONS AND OTHER INFORMATION

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EPA EST. NO. 48301-LA-01 Printed in U.S.A.

ANGUS ANGUS Chemical Company
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DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Final Disposal
Do not contaminate water; feed or feed by-products or disposal. Keep away from heat. Possible flammable. Improper disposal of empty containers, spray nozzles, or drums 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 nearest Waste Management representative of the nearest EPA Regional Office for guidance.

Container Disposal
This does not apply. Then offer for recycling or reconditioning or purchase and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

FOR USE IN METALWORKING FLUIDS
BIOBAN P-1487T is recommended for use in soluble oil, semi-synthetic, and synthetic fluids. It should be added directly to the sump (with agitation). A dose of 100 - 2000 ppm is recommended for initial treatment; higher levels up to 2,500 ppm, but no greater for flooded 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 1000 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 1000 ppm in the fluid. Maintenance Dosage: Add 500 - 1000 ppm of BIOBAN P-1487T to maintain control of the system.

FOR USE IN HYDROCARBON PREPARATION
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 mixing to attain the proper concentration 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 0.20 - 2.2 gallons of BIOBAN P-1487T directly to each 1,000 gallons of hydrocarbon in the system to obtain a concentration of approximately 500 - 2,200 ppm.

In a fuel-treatment pre-mix: BIOBAN P-1487T may be mixed with other fuel additives 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-PHOS PHOS)
For control of microbial contamination in resins, 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 at 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-PHOS PHOS)
To inhibit the growth of microorganisms during storage or use of water-based inks.
To prevent microbial growth, add BIOBAN P-1487T in the final step of the manufacturing process, after 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 pre-oxide 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 oil, semi-synthetic, and synthetic fluids. It should be added directly to the sump (with agitation). A dose of 100 - 2000 ppm is recommended for initial treatment; higher levels up to 2,500 ppm, but no greater for flooded 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 1000 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 - 1000 ppm of BIOBAN P-1487T to maintain control of the system.