

# BIOBAN® P-1487T

## ANTIMICROBIAL AGENT

ACCEPTED

OCT 16 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 464-674

### Container Disposal

Wipe clean for re-shipment. Then offer for recycling or conditioning 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 1000 - 2000 ppm is recommended for initial treatment; higher levels up to 2,500 ppm, but no greater for treated 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 1.9 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 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 dry dosage or by intermittent dosing to reach 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 fuel storage system to achieve a concentration of approximately 1,000 ppm. To facilitate mixing, transfer each gallon of BIOBAN P-1487T to 100 gallons of water and add this solution directly to the water phase in the fuel with minimal agitation.

For storage in tanks without intentional water: Add 0.22 - 0.2 gallons of BIOBAN P-1487T directly to each 1,000 gallons of hydrocarbon in the system to obtain a concentration of approximately 200 - 2,000 ppm.

In a fuel-treatment use only, BIOBAN P-1487T may be added with other fuel additives for addition to fuel. The fuel must first add sufficient BIOBAN P-1487T to the product to provide 500 - 2,500 ppm of BIOBAN P-1487T in the treated fuel.

**FOR USE IN ADHESIVES AND INDUSTRIAL EMULSIONS** pre-mix only  
For control of microbial contamination in water, latex or other water-based emulsions, sealant emulsions or to inhibit the growth of microorganisms in adhesives, add 0.05 - 0.1% (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

To inhibit the growth of microorganisms during storage or use of unabsorbed inks. In-ink preservation: 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 added at 500 - 2,500 ppm based on the final formulation vehicle. BIOBAN P-1487T may be added post-ink at a concentration of 500 - 2,500 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 systems used in the manufacture of plastics.

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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 1.9 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.

### FIRST AID:

**If in eyes:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

**If swallowed:** Call a poison control center or doctor immediately or treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center.

**If on skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment.

**If inhaled:** Move person to fresh air. If person is not breathing, Call 911 or an ambulance, then give artificial respiration, preferably mouth to mouth, if possible. Call a poison control center or doctor for further treatment. **Note to physician:** Probable mucosal damage may contraindicate the use of gastric lavage.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and wildlife. 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 of Regional Office of the EPA.

**IN CASE OF AN EMERGENCY** endangering life or property involving this product, call collect 989-636-4400.

**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.

### Active ingredient:

4-(2-Nitrobutyl)morpholine . . . 36.2% by wt  
4, 4'-(2-Ethyl-2-nitrotrimethylene)  
dimorpholine . . . . . 2.0% by wt  
Inert Ingredients . . . . . 61.8% by wt  
Total 100%

EPA Reg. No. 464-674  
EPA Est. No. 48301-LA-001

KEEP OUT OF REACH OF CHILDREN

## DANGER

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

**CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. 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 and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.



**THE DOW CHEMICAL COMPANY**  
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