



BIOBOR® JF

The Industry Standard for the Treatment of Microbial Growth in Fuel

ACTIVE INGREDIENTS:	
2,2'-(1-methyltrimethylenedioxy)bis-(4-methyl-1,3,2-dioxaborinane).....	67.6% by wt.
2,2'-oxybis (4,4,6-trimethyl-1,3,2-dioxaborinane).....	27.4% by wt.
OTHER INGREDIENTS	5.0% by wt.
TOTAL	100.0% by wt.

KEEP OUT OF REACH OF CHILDREN

DANGER

See side panel for additional precautionary statements

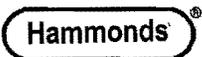
FIRST AID

If in eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.
If on skin:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for further treatment advice.
If swallowed:	<ul style="list-style-type: none"> Call Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.

Note to Physician: Probable mucosal damage may contraindicate use of gastric lavage.

**NET CONTENTS: 1 U.S. Gallon (8.75 lbs.)
3.8 Liters (4 kg)**



HAMMONDS FUEL ADDITIVES, INC.

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**PRECAUTIONARY STATEMENTS
HAZARD TO HUMANS
AND DOMESTIC ANIMALS**

Danger. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield, protective clothing, and rubber gloves. Harmful if swallowed or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, and using tobacco. Remove contaminated clothing and wash clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: coveralls over long sleeved shirt and long pants, socks and chemical resistant footwear, goggles or face shield, chemical resistant gloves (such as waterproof or rubber gloves).

Environmental Hazards

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient 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.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL

STORAGE: BIOBOR®JF must be protected from moisture. Containers must be capped tightly when not in use as prolonged exposure to atmospheric moisture can cause formation of solids and loss of effectiveness. Do not transfer to other containers for storage. Discard if product is cloudy or contains solid materials.

PESTICIDE DISPOSAL: Pesticide wastes are acutely toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be properly 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: Nonrefillable Container. Do not reuse or refill this container. Triple rinse (or equivalent) all containers and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

7/2/09

FOR PREVENTION AND
ELIMINATION OF
MICROBIAL GROWTH IN
ALL HYDROCARBON
FUELS SUCH AS
AVIATION JET FUELS,
KEROSENE, NO. 1 AND
NO. 2 DIESEL FUELS,
HOME HEATING OIL,
MARINE DIESEL AND
BUNKER "C" FUEL.
FOR USE IN
AVIATION JET FUELS,
FOLLOW SPECIFIC
RECOMMENDATIONS
FROM AIRFRAME AND
AIRCRAFT ENGINE
MANUFACTURERS.

Notice: Our recommendations for use of this product are based upon tests believed to be reliable. The use of this product being beyond the control of the manufacturer, no guarantee expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions of established safe practice. The buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.



REV 05/09

BIOBOR®JF

DIRECTIONS FOR USE

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

A MICROBICIDE FOR FUELS

BIOBOR®JF is intended for use in:

- Bulk Storage Tanks
- Diesel Boats and Ships
- Locomotive Fuel Tanks
- Home Heating Oil Tanks
- Aircraft Fuel Tanks
- Farm Equipment
- Construction Vehicles

NOT FOR USE IN ON-ROAD VEHICLES

BIOBOR®JF is a microbiocide used to eliminate and prevent the growth of Cladosporium resinae and Pseudomonas aeruginosa microorganisms in fuel tanks. The maximum treatment level for contaminated tanks is 270 ppm of BIOBOR®JF and the maintenance level for clean tanks is 135 ppm of BIOBOR®JF. The preferred method of blending the appropriate concentration of BIOBOR®JF is by metered injection directly into the stream of flowing fuel as it is added to a fuel tank. This ensures dispersion, and prevents the formation of high concentration of BIOBOR®JF in fuel. If metering is not available, and batch blending is the only alternative, caution must be taken to ensure that BIOBOR®JF is blended only into clean, dry fuel. When batch blending, add BIOBOR®JF to the largest batch possible, i.e., a tank truck while fuel is being added. Start adding BIOBOR®JF when tank is half full, never to an empty tank. Do not exceed 1000 ppm or 0.10% of the total volume of fuel treated. Concentrations in excess of maximum levels may produce formation of solids. For best results when using maximum treatment levels, fill tank completely and allow 24 to 36 hours exposure time. BIOBOR®JF is soluble in both fuel and water, and is designed to migrate from the fuel phase to the water phase for complete control of fungus. Standard fuel management practice mandates the removal of excess water. BIOBOR®JF must be blended into the fuel phase only, and not into the water bottom areas.

TREATMENT DOSAGE LEVELS

Gallons of Fuel to be Treated*	BIOBOR®JF (270 ppm)**	BIOBOR®JF (135 ppm)**
100 gallons (378.5 L)	2.6 fl. oz. (80 ml)	1.3 fl. oz. (40 ml)
300 gallons (1135.5 L)	1/2 pint (236 ml)	4.0 fl. oz. (118 ml)
625 gallons (2365.6 L)	1 pint (473 ml)	1/2 pint (236 ml)
1250 gallons (4731.3 L)	1 quart (946 ml)	1 pint (473 ml)

*Assuming fuel density at 6.7 pounds per gallon

**BIOBOR®JF weight per gallon = 8.75 pounds

To calculate exact level of BIOBOR®JF in fluid ounces, multiply the amount of fuel, in pounds, by the factor 0.004 for the maximum treatment (270 ppm). Use a factor 0.002 for maintenance treatment level (135 ppm). Use only clean, dry measuring containers.

JP-4 weight per gallon.....	6.343 pounds
Jet-A (Kerosene) weight per gallon.....	6.714 pounds
Diesel Fuel #1 weight per gallon.....	6.827 pounds
Diesel Fuel #2 weight per gallon.....	7.080 pounds
Bunker "C" weight per gallon.....	8.305 pounds

Hammonds®

Manufactured For

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