

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

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.

INERT INGREDIENTS 5.0% by wt.

**KEEP OUT OF REACH OF CHILDREN
 DANGER**

See Side Panel For Additional Precautionary Statements

STATEMENTS OF PRACTICAL TREATMENT: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, call a physician. If swallowed, drink large quantities of water. Avoid alcohol. Do not induce vomiting. If on skin, wash thoroughly with soap and water.

A
Hammonds
 Product

Manufactured for
 Hammonds Fuel Additives, Inc.
 Houston, Texas 77238-8114
 EMERGENCY PHONE: 800-548-9116

EPA REG. NO. 65217-1
 EPA EST. 61897-TX-0001

NET CONTENTS

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ACCEPTED
 MAR 30 1995
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 65217-1

PRECAUTION

HAZARD TO HUMANS

Danger. Corrosive. Causes irritation. Do not get in eyes, goggles or face shield area. Harmful if swallowed or absorbed.

Environment

This pesticide is toxic to aquatic life. Do not apply to streams, estuaries, oceans or other bodies of water. Notify the authority having jurisdiction of the requirements of a National Pollution Discharge Elimination System (NPDES) if the authority has been notified. Do not discharge effluent collection or control systems without previous approval of the local treatment plant authority. Notify the local Water Board or Regional Office.

Physical or Chemical

Do not use or store near heat.

STORAGE

DO NOT CONTAMINATE STORAGE OR DISPOSAL

STORAGE: BIOBOR® JF should be stored in original containers. Containers must be capped and protected from prolonged exposure to sunlight to prevent formation of solids and fumes. Do not transfer to other containers unless the container is clean, dry, and is cloudy or contains solid material. **PESTICIDE DISPOSAL:** Pesticide should not be disposed of in the environment. Improper disposal of excess pesticide is a violation of Federal law. Containers should be properly disposed of according to the instructions, contact your State Control Agency, or the Hazardous Waste Division of the nearest EPA Regional Office. **CONTAINER DISPOSAL:** Do not reuse containers and offer for recycling. Do not puncture and dispose of in accordance with procedures approved by state and local authorities.

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

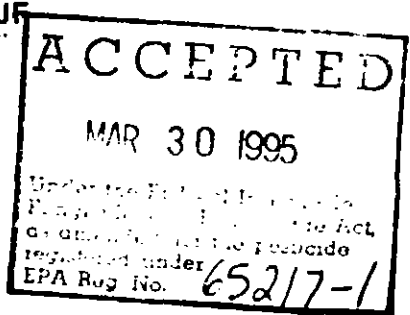
BIOBOR® JF is a microbicide used to eliminate and prevent the growth of *Cladosporium resinae* and *Pseudomonas aeruginosa* microorganisms in fuel tanks. The maximum treatment level for contaminated tanks is 270 ppm of BIOBOR® JF and the maintenance level for clean tanks is 135 ppm of BIOBOR® JF. The 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 recommended 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 water bottom areas.

TREATMENT DOSAGE LEVELS

for 5 gallon pails and 55 gallon drums

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	6.363 pounds
Jet A (Kerosene) weight per gallon	6.714 pounds
Diesel Fuel #1 weight per gallon	6.82 pounds.
Diesel Fuel #2 weight per gallon	7.08 pounds.
Bunker "C" weight per gallon	8.30 pounds