

Reg # 65217-1

PM-31

195

APR 03 1992

Hammonds Fuel Additives, Inc.
P.O. Box 38114-407
Houston, TX 77238-8114

Attention: Eliot I. Harrison

Gentlemen:

Subject: BioBor Jf
EPA Registration No. 65217-1
Your Amendment Dated December 15, 1991

The amendment referred to above, submitted in connection with registration under FIFRA, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Delete the word "Warning" in the Precautionary Statements.
 - b. Change

Harmful or Fatal if Swallowed, May
cause severe eye damage

to read:

Danger. Keep out of reach of children. Corrosive. Causes severe eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear rubber gloves when handling. Harmful if swallowed. Do not use in closed spaces without adequate ventilation.

61774:I:DeLaney:C.Disk:KEVRIC:03/23/92:rj:wo:dd:aw

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

- c. Revise the "Practical Treatment" section to read:

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.

- d. Change the referral statement to read:

See side panel for additional precautionary statements.

- e. Revise the word "Hazardous" to "Hazard."

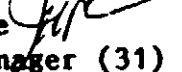
2. Submit five (5) copies of your final printed labeling before you release the product for shipment.

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

If you have any questions concerning this letter, please contact Martha DeLaney at (703) 305-6982.

Sincerely yours,

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

Enclosure

FRONT PANEL

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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-methyl-1,3-dioxaborinane)bis-	67.6% by wt.
(4-methyl-1,3,2-dioxaborinane)	
2,2'-oxybis(4,4,8-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 and Practical Treatment

APPROVED
with conditions
to EPA...
APR 07 1992

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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PRECAU

HAZARDOUS TO H

WARNING: Harmful if swallowed. Causes severe eye damage. Use with adequate ventilation.

PRACTICAL TREATMENT: Add plenty of water. If inhaled, SWALLOWED, call a physician. If these are unavailable, wash with white, gelatin solution. Wash thoroughly with water.

Env

This pesticide is toxic to aquatic life containing this active ingredient. Do not discharge effluents into estuaries, oceans, or other specifically identified sensitive areas. Do not discharge effluents into water systems without previous approval from local, state, or federal plant authority. For more information, contact the EPA, Regional Office, Board or Regional Office.

Physi

Do not use or store in areas where food is prepared, stored, or consumed.

STOP

DO NOT CONTAMINATE STORAGE OR DISPOSAL

STORAGE: BIOBOR JF Containers must be kept upright to prevent prolonged exposure to sunlight and formation of solids. Do not transfer to other containers if cloudy or contains sediment. **PESTICIDE DISPOSAL:** this product may be disposed of at a waste disposal facility. **CONTAINER DISPOSAL:** Containers and other materials must be punctured and disposed of in accordance with procedures approved by the EPA.

BIOBOR® JF is intended for use in:

- Bulk Storage Tanks
- Diesel Trucks
- Aircraft Fuel Tanks
- Diesel Boats and Ships
- Locomotive Fuel Tanks
- Farm Equipment
- Home Heating Oil Tanks
- 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)
825 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)

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 03 1992

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

65217-1

*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 level (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

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TREATMENT DOSAGE LEVELS

for 16 and 32 ounce containers

DOSAGE LEVELS

Gallons of Fuel to be Treated*	"Shock" Treatment (270 ppm)	Maintenance Treatment (135 ppm)
20	1/2 fl. oz. (15 ml)	1/4 fl. oz. (7 ml)
40	1 fl. oz. (30 ml)	1/2 fl. oz. (15 ml)
60	1 1/2 fl. oz. (45 ml)	3/4 fl. oz. (25 ml)
120	3 1/4 fl. oz. (100 ml)	1 3/4 fl. oz. (50 ml)

270 ppm = (weight of fuel x gallons x .004)

135 ppm = (weight of fuel x gallons x .002)

JP-4 - 6.343 lbs./gal.

Jet A - 6.714 lbs./gal.

Diesel #1 - 6.927 lbs./gal.

Diesel #2 - 7.080 lbs./gal.

Bunker "C" - 8.305 lbs./gal.

BLENDING AND DISPENSING INSTRUCTIONS

This container is designed so that the BIOBOR® JF may be added in exact measured quantities during the fueling operation. After the fuel tank is approximately half full, begin adding BIOBOR® JF from the measured control area of the container into the tank to the desired dosage. 1). Make sure black cap is on tight. (main bottle) 2). Loosen white cap covering measured control area. 3). Squeeze sides of container lightly in order to fill measured control area to desired level. 4). Remove white cap and pour measured amount of BIOBOR® JF from measured control area into fuel tank. 5). Replace white cap and repeat steps #3 and #4 as required to treat the desired fuel quantity. 6). After required treatment is completed, make sure all caps are on tightly in order to eliminate moisture contamination of the product. This container is NOT to be re-filled with BIOBOR® JF.

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in EPA Letter Dated:

APR 03 1992

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as amended, for the pesticide
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