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Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0080. Approval expires 05-31-98.



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other

OPP Identifier Number 245260

Application for Pesticide - Section I

1. Company/Product Number 65217-1
2. EPA Product Manager MARION JOHNSON
3. Proposed Classification None Restricted
4. Company/Product Name HAMMONDS FUEL ADDITIVES, INC: BIOBOR
5. Name and Address of Applicant HAMMONDS FUEL ADDITIVES, INC. 15760 WEST HARDY ROAD SUITE # 400 HOUSTON TX 77060
6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. Product Name

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

DELETION OF "DIESEL TRUCKS" USE. ADDITION OF PHRASE, "NOT FOR USE IN ON-ROAD VEHICLES" PURPOSE OF AMENDMENT IS TO COMPLY WITH CLEAN AIR ACT REQUIREMENT FOR FUEL ADDITIVES

Section - III

1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, 2. Type of Container, 3. Location of Net Contents Information, 4. Size(s) Retail Container, 5. Location of Label Directions, 6. Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.) Name CRISTINA GRIFFIN Title AGENT FOR HAMMONDS Telephone No. (301) 652-5495
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.
2. Signature Cristina Griffin 3. Title AGENT FOR HAMMONDS
4. Typed Name CRISTINA GRIFFIN 5. Date 3/24/97
6. Date Application Received (Stamped)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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MAY 15 1997

Hammonds Fuel Additives, Inc.  
 15760 West Hardy Road  
 Suite #400  
 Houston, TX. 77060

Attention: Cristina Griffin  
 Agent for Hammonds

Subject: Hammonds Fuel Additives, Inc: Biobor  
 EPA Registration Number 65217-1  
 Your Amendment Dated March 24, 1997

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to delete "Diesel Trucks Use," claim and to add the statement "Not For Use In On-Road Vehicles," is acceptable. A stamped copy is enclosed for your records.

If you have any questions concerning this letter, please contact Pam Hasty at (703) 308-7933.

Sincerely,



Marshall Swindell  
 Acting Product Manager 31  
 Regulatory Management Branch I  
 Antimicrobial Division (7510W)

Enclosure:

CONCURRENCES							
SYMBOL	7510W						
SJRNAME	P. Hasty						
DATE	5/14/97						

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<sup>®</sup> 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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## PRECAUTIONARY STATEMENTS

### HAZARD TO HUMANS AND DOMESTIC ANIMALS

Danger. Corrosive. Causes severe eye damage and skin irritation. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Harmful if swallowed or absorbed through the skin.

### Environmental Hazards

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans or other water 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<sup>®</sup>JF should 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: 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.

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# BIOBOR® JF

## DIRECTIONS OR 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
- Aircraft Fuel Tanks
- Farm Equipment
- Construction Vehicles
- Home Heating Oil Tanks

### NOT FOR USE IN ON-ROAD 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 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.

**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 = 6.827 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 to 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.