

65217-1

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Ms. Susan Stracquantanio
Agent for Hammonds Fuel Additives, Inc.
c/o Delta Analytical Corp.
12510 Prosperity Drive, Suite 160
Silver Spring, MD 20940

MAY 8 2014

Subject: Biobor JF
EPA Registration No 65217-1
Application Date: 7/18/13
Receipt Date: 7/19/13

Dear Ms. Stracquantanio:

The following amendment submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable:

- Addition of biocide treatment of non-fuel hydrocarbon products including hydraulic fluids, transmission fluids, lubricating oils, lubricants and antifreeze.

The Agency has conducted a risk assessment on the additional use sites and determined that the requested uses are acceptable. Attached is a copy of the risk assessment science review for your records

Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Within 13 months from date of registration provide these data:

- OCSPP 850.4500 – Algal Toxicity, green algae

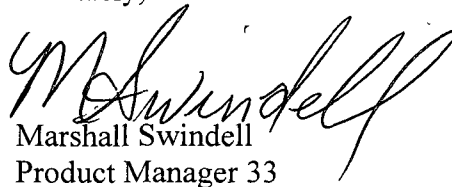
A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. The next label printing of this product must use this labeling unless subsequent changes have been approved. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for

18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If the above conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

Should you have any questions or comments concerning this letter, please contact me at (703)308-6341.

Sincerely,



Marshall Swindell
Product Manager 33
Regulatory Management Branch 1
Antimicrobials Division (7510P)

BIOBOR® JF

For the Treatment of Microbial Growth in [Aviation] Fuel [opt.]
For Prevention of Microbial Growth in Hydrocarbon Products [Fuels] [opt.]

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	<u>5.0% by wt.</u>
TOTAL	100.0% by wt.

KEEP OUT OF REACH OF CHILDREN

DANGER

See Side Panel For Additional Precautionary Statements

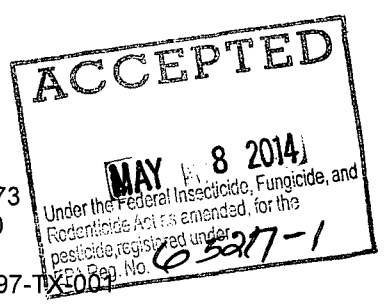
FIRST AID	
If in Eyes:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for further treatment advice.
If on Skin:	<ul style="list-style-type: 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 a 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 the use of gastric lavage.	

A
Hammonds
Product

Manufactured for [by]
Hammonds Fuel Additives, Inc.
910 Rankin Road, Houston, Texas 77073
EMERGENCY PHONE: 800 424-9300

EPA REG. NO. 65217-1

EPA EST. 61897-TX-001



NET CONTENTS:

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Danger. Corrosive. Causes irreversible eye damage. 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, chewing gum, using tobacco or using the toilet. 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 product 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

Combustible. Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

FUEL BIOCIDES [A [MICRO]BIOCIDES FOR FUELS]

For prevention and elimination of microbial growth in all hydrocarbon fuels such as *[choose one or more]* [aviation jet fuels], [kerosene], [No. 1 and No. 2 diesel fuels], [home heating oil], [marine diesel], [bunker "c" fuel] [and can [may] be used for diesel/home heating oil/biodiesel and bunker fuel].

For use in aviation fuels, the Federal Aviation Administration must be consulted as to the acceptability of the additive for use in specific engines and/or aircraft.

BIOBOR® JF is intended for use in:

- Aircraft Fuel Tanks
- Aviation Fuel Pipelines
- Aviation Fuel Storage Tanks
- Aviation Fuel Transportation Tankers
- At the refinery level
- Bulk Storage Tanks
- Construction Vehicles
- Farm Equipment
- Home Heating Oil Tanks
- Locomotive Fuel Tanks
- [Marine] Diesel [Boats and Ships]
- All Diesel Powered Engines used in *[choose one or more]* [Power or Stand-by Power Generators] [Locomotives] [Agriculture] [Construction]

NOT FOR USE IN ON-ROAD VEHICLES

BIOBOR® JF is a [micro]biocide 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. BIOBOR® JF must be blended into the fuel phase only, and not into water bottom areas. Standard fuel management practice includes the removal of excess water. Users of this product are responsible for removal of water from fuel.

TREATMENT DOSAGE LEVELS⁺

[for 1 gallon, 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)	½ pint (236 ml)	4.0 fl. oz. (118 ml)
625 gallons (2365.6 L)	1 pint (473 ml)	½ 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.

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

TREATMENT DOSAGE LEVELS⁺

[for 8, 16 and 32 ounce [1 Quart] containers]

Gallons of Fuel to be Treated [*]	"Shock" Treatment (270 ppm)	Maintenance Treatment (135 ppm)
20	½ fl. oz. (15 ml)	¼ fl. oz. (7 ml)
40	1 fl. oz. (30 ml)	½ fl. oz. (15 ml)
60	1½ fl. oz. (45 ml)	¾ fl. oz. (25 ml)
120	3¼ fl. oz. (100 ml)	1¾ 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 into the tank to the desired dosage.

- 1) Make sure main bottle cap is tightly fastened.
- 2) Loosen cap covering **measured control area**.
- 3) Squeeze sides of container lightly in order to fill **measured control area** to desired level.
- 4) Remove cap from **measured control area** and pour measured amount of BIOBOR[®] JF into fuel tank.
- 5) Replace 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.

⁺Dosage amounts greater than 30 fluid ounces (.24 gallons) must not be manually poured but must be metered or pumped directly into stream of flowing fuel *and/or* [fluid].

BIOCIDE FOR NON-FUEL HYDROCARBON PRODUCTS

For prevention and elimination of microbial growth in hydrocarbon fluids such as such as *[choose one or more]* [Hydraulic Fluids], [Transmission Fluids], [Lubricating Oils or Lubricants] and [Antifreeze].

NOT FOR USE IN ON-ROAD VEHICLES

BIOBOR[®] JF is a microbiocide used to eliminate and prevent the growth of microorganisms in fluids containing hydrocarbon products stored in tanks and reservoirs and systems. The maximum treatment level for contaminated tanks and reservoirs is 270 ppm of BIOBOR[®] JF and the maintenance level is 135 ppm of BIOBOR[®] JF. BIOBOR[®] JF should be added to a full tank or while being filled to maximum and never to an empty tank. Concentrations in excess of maximum treatment levels may produce formation of solids. For best results when using the maximum treatment levels, use a full tank and allow 24-36 hours exposure time.

BIOBOR[®] JF is soluble in both water and the hydrocarbon product, and is designed to migrate from the hydrocarbon product phase to the water phase to control the microorganisms. BIOBOR[®] JF must be blended into the hydrocarbon product phase and not merely the water bottom. Users of this product are responsible for removal of any excess water from tank or reservoir.

TREATMENT DOSAGE LEVELS*

Use the formulas below to calculate the exact dosage (in fluid ounces) of BIOBOR® JF in hydrocarbon fluids.

"Shock" Treatment (270 ppm):

Fl. Oz. of BIOBOR® JF = (weight of fluid/gallon x gallons of fluid x .004)

"Maintenance" Treatment (135 ppm):

Fl. Oz. of BIOBOR® JF = (weight of fluid/gallon x gallons of fluid x .002)

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 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 HANDLING: Nonrefillable Container. Do not reuse or refill this container. Offer for recycling if available, or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Warranty and Disclaimer Notice: The manufacturer's directions 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. To the extent consistent with applicable law, the buyer must assume all responsibility, including injury or damage, resulting from its misuse as such, or in combination with other materials.

[CLAIMS]

[The following claims and graphics are optional and may be placed anywhere on label.]

[Biobor JF Meets ASTM Specifications for Lubricity]

[Adds Lubricity to fuel – Biobor JF exceeds ASTM specifications for fuel lubricity!]

[Biobor JF kills hydrocarbon utilizing micro-organisms (or, HUM Bugs) which cause fuel tank contamination.]

[Can [May] be used for diesel / home heating oil / biodiesel and bunker fuel].

[Specially formulated for diesel and jet fuel]

[MIL-S-53021A]

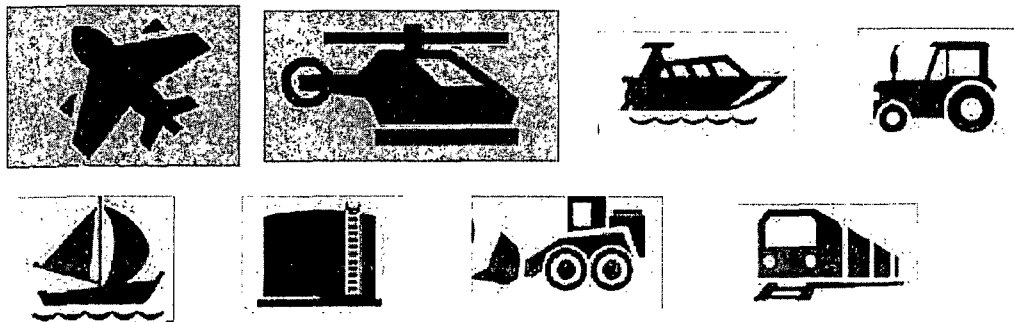
[Meets ASTM specifications for lubricity in diesel fuels]

[US Coast Guard Certification No. 907-6 May 1971]

[For Product or Technical Support Call (281) 820-5674 or in the U.S. (800) 548-9166]

[Aviation Fuel Biocide]

Diesel and Industrial Biocide



[Graphics consistent with label text showing examples of places where the product may be used.]