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BIOBOR® JF

A Microbiocide For Fuel

FOR USE IN BULK FUEL STORAGE TANKS AND FUEL TANKS OF AIRCRAFT, LOCOMOTIVES, TRUCKS, SHIPS AND BOATS.

FOR USE IN JET AIRCRAFT FUEL, HOME HEATING FUEL, DIESEL FUEL (#1, #2), MARINE FUEL AND LOCOMOTIVE FUEL.

FOR USE IN AVIATION FUEL, THE FEDERAL AVIATION ADMINISTRATION MUST BE CONSULTED AS TO THE ACCEPTABILITY OF THE ADDITIVE FOR USE IN SPECIFIC ENGINES AND/OR AIRCRAFT.

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.

ACTIVE INGREDIENTS:
 2,2'-(1-methyl-1,3-dioxaborinane)diol
 (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
 TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN
WARNING
 See Side Panel For Additional Precautionary Statements and Practical Treatment

A 20 MULE TEAM® Product

Manufactured By
 United States Borax & Chemical Corporation
 Los Angeles, California 90010

EPA Reg. No. 1624-71

Net Contents 1 U.S. Quart (2.2 lbs.)
 946 mL (990g)

ACCEPTED
 NOV 29 1988
 Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1624-71

BEST AVAILABLE COPY

081/0285 (03)
 EPA Est. 178-LA-1

USBORAX®

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Harmful or fatal if swallowed. Do not use in closed spaces without adequate ventilation. Avoid contact with skin and clothing. Do not get in eyes.

PRACTICAL TREATMENT: IF IN EYES, flush eyes with plenty of water. If irritation persists, consult physician. IF SWALLOWED, call a physician, or Poison Control Center. If these are unavailable, give a large quantity of milk, egg white, gelatin solution or water. Avoid alcohol. IF ON SKIN, wash thoroughly with soap and water.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Physical/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. BIOBOR® 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. Before use, clean lid area of dust and dirt. Do not use product if cloudy or contains solids.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

BIOBOR

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with directions.

BIOBOR JF is a microbiocide used to inhibit the growth of bacteria, fungi, and algae in fuel tanks, and as a preventive measure in fuel tanks, and as a preventive measure in fuel tanks, and as a preventive measure in fuel tanks. The maximum treatment level for fuel is 270 ppm, and the maintenance level is 135 ppm. The preferred method of blending is to add BIOBOR JF directly into the stream of flowing fuel. BIOBOR JF concentration levels should be maintained at 270 ppm whenever fuel is added to a fuel tank. This prevents the formation of high concentrations of bacteria, fungi, and algae. If metering is not available, and batch blending is used, caution must be taken to ensure that the fuel is clean, dry, and free of water. Concentrations of 0.10% (1000 ppm) in fuel may bring about the formation of a white precipitate. When batch blending, add BIOBOR JF to a tank truck, while fuel is being added. Add BIOBOR JF when tank is half full, never when full.

Direct contact with water must be avoided. BIOBOR JF is soluble in both fuel and water. Do not blend BIOBOR JF into the fuel phase only, and do not migrate from the fuel phase to the water phase.

BLENDED CALCULATION

| Fuel Requirements* | BIOBOR JF (270 ppm)** |
|-------------------------|-----------------------|
| 100 gallons (378.5 L) | 2.8 fl. oz. (80 ml) |
| 300 gallons (1135.5 L) | 1/2 pint (236 ml) |
| 625 gallons (2365.6 L) | 1 pint (473 ml) |
| 1250 gallons (4731.3 L) | 1 quart (946 ml) |

*Assuming fuel density at 6.7 pounds per gallon
 **BIOBOR JF weight per gallon

To calculate addition level of BIOBOR JF to fuel, determine the amount of fuel, in pounds, by the maximum treatment (270 ppm). Use a factor of 135 ppm. Use only clean, dry fuel.

Diesel Fuel #1 weight per gallon = 7.1
 Diesel Fuel #2 weight per gallon = 7.0
 Bunker "C" weight per gallon = 6.9

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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

TOTAL 100.0%

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AND DOMESTIC ANIMALS**

WARNING Harmful or fatal if swallowed. Do not use in closed spaces without adequate ventilation. Avoid contact with skin and clothing. Do not get in eyes.

PRACTICAL TREATMENT IF IN EYES: flush eyes with plenty of water. If irritation persists, consult physician. **IF SWALLOWED,** call a physician, or Poison Control Center. If these are unavailable, give a large quantity of milk, egg white, gelatin solution or water. Avoid alcohol. **IF ON SKIN,** wash thoroughly with soap and water.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans, or public waters unless this product is specifically identified and addressed in an NPDES permit. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Physical/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. BIOBOR® 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. Before use, clean lid area of dust and dirt. Do not use product if cloudy or contains solid materials.

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Triple-rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

BIOBOR® JF

DIRECTIONS FOR USE

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

BIOBOR JF is a microbiocide used to inhibit growth of *Clostridium* species and *Pseudomonas aeruginosa* microorganisms in contaminated fuel tanks, and as a preventative measure in clean tanks. The maximum treatment level for contaminated tanks is 270 ppm product, and the maintenance level for clean tanks is 135 ppm product. The preferred method of blending is by metered injection directly into the stream of flowing fuel to the appropriate final BIOBOR JF concentration levels as stated above on the label, whenever fuel 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. Concentrations of BIOBOR JF in excess of 0.10% (1000 ppm) in fuel may bring about the formation of solids. When batch blending, add BIOBOR JF to as large a batch as 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.

Direct contact with water must be avoided. BIOBOR JF must be blended into the fuel phase only, and not into water bottom areas. 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.

BLENDED CALCULATIONS

| Fuel Requirements* | 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 addition level of BIOBOR JF in fluid ounces, multiply the amount of fuel, in pounds, by the factor 0.0004 for the maximum treatment (270 ppm). Use a factor 0.002 for maintenance level (135 ppm). Use only clean, dry measuring containers.

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