

PM 25 1448-55
PS 133

MAY - 5 1993

Mr. Dennis L. Barbee
Buckman Laboratories, Inc.
1256 N. McLean Blvd.
Memphis, TN 38108

Dear Dr. Barbee:

Subject: Revised Labels
BUSAN 30
EPA Reg. No. 1448-55
Your submission dated April 16, 1993

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely yours,

Robert J. Taylor
Product Manager 25
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

RD:RTaylor:eja:5/5/93:305680₀

BEST AVAILABLE COPY

BUSAN 30

BUSAN is a registered trademark.

BEST AVAILABLE

KEEP OUT OF REACH OF CHILDREN
DANGER

ACTIVE INGREDIENTS:

2-(Thiocyanomethylthio)benzothiazole	30.0%
INERT INGREDIENTS	70.0%
TOTAL	100.0%

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Causes irreversible eye damage. Causes skin irritation. This product may cause allergic skin reactions. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID: If in eyes, flush with plenty of water. Get medical attention. If on skin, wash with plenty of soap and water. Get medical attention. If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention.

Note to physician: Probable mucosal damage may contraindicate gastric lavage.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not use in offshore or estuarine drilling operations. Do not discharge into lakes, streams, ponds, or public waters unless in accordance with a NPDES Permit. For guidance, contact the regional office of the Environmental Protection Agency.

PHYSICAL AND 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: Do not expose to extreme temperatures. Do not stack more than five drums high. Drums should be opened in well-ventilated areas. Leaking or damaged drums should be placed in overpack drums for disposal. Spills should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at your EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (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.

DIRECTIONS FOR USE

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

Technical assistance in applying Busan 30 for microorganism control as described in the label is available upon request when a description of the problem is provided. **LEATHER:** Busan 30 is used at treatment rates of 0.25 to 2 lb/1000 lb of white weight stock to prevent the bacterial or fungal degradation of salt-cured hides and skins and to prevent mold growth on chrome- or vegetable-tanned hides and skins. For treating hides cured with dry salt, Busan 30 should be sprinkled on the hides or should be mixed with the salt before it is applied to the hides. For treating tanned hides, Busan 30 should be dispersed in water and added to the pickling solution or to the tanning liquor at the start of the tanning operation. For preservation of leather-finishing pastes and fat liquors, Busan 30 is added to the paste or liquor at 0.10 to 0.25% by weight of treated paste and mixed to ensure adequate dispersion. **PULP MILL:** To protect wood chips from fungal degradation during storage, Busan 30 is used at 0.5 to 2 lb/1000 lb of oven-dry wood. It can be applied through a water shower or spray located in the pneumatic conveyor carrying chips from the chipper to the storage pile. For preservation of wet lap or sheet pulp, Busan 30 is used at 0.5 to 4 lb/ton of oven-dry fiber. It is applied to the surfaces of the dewatered pulp by means of sprays or applicator rolls. **PAPER MILLS:** To control bacterial and fungal growth on paper, paperboard machines, Busan 30 is added to the white water or stock at 0.1 to 0.5 lb/ton of dry pulp or paperboard produced. To make mold-resistant paper or paperboard, Busan 30 is used at 0.05 to 0.15 lb/1000 sq ft (0.15 to 0.3 lb/3000 sq ft) of surface. For coated paper or board, Busan 30 is incorporated in the coating mix prior to application of the coating. For uncoated paper or board, Busan 30 is dispersed in water, surface-sizing solution, or other solvent and applied to the surface to be protected by means of an applicator roll. For the preservation of agricultural mulch paper, Busan 30 is used at 5 lb/ton air-dry paper. It is applied to the surfaces of the mulch paper by tub-sizing methods or by means of sprays or applicator rolls before the paper is coated. **PARTICLE BOARD:** Busan 30 is employed as a preservative for particle board, insulation board, and other wood-base fiber and panel materials. In this use, Busan 30 is mixed with the resin or binding agent at 0.1 to 1% based on the dry weight of the wood. **SAP STAIN CONTROL:** Busan 30 is used to control sap stain and on freshly cut softwood and hardwood lumber, logs, poles, posts, and timbers. It is applied by direct spraying, or pressure impregnation of the wood with a dispersion containing 0.5 to 8 gal of Busan 30 per 100 gal of water. Treatment should be made within 24 hr of cutting or sawing, particularly in wet weather, and treated wood should not be exposed to heavy rains soon after treatment. **COOLING TOWERS:** Busan 30 is used to protect cooling tower wood against soft or surface rot and iron dry rot. It is applied by spraying or painting a dispersion containing 0.5 to 0.7% Busan 30 in water on the clean wood surfaces. The amount applied should provide 0.6 to 0.8 lb Busan 30 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of Busan 30 in recirculating cooling water at the tower basin or cold well. The dosage should provide 1.25 lb of Busan 30 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after treatment. The treatment should be repeated every four months. **COOLING WATER:** Busan 30 is used to control algae, bacteria, and fungi in industrial recirculating cooling water systems. Before treatment is made, the system should be cleaned thoroughly to remove old algal growth, microbiological slime, and deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 0.4 to 3.7 lb of Busan 30 per 1000 gal water in the system. Subsequent additions of 0.2 to 1.2 lb of Busan 30 per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and overall microbiological loading. **COATINGS, CAULKING-SEALANTS & WALLCOVERING ADHESIVES:** Sufficient mixing to ensure adequate dispersion of the biocide is required. Busan 30 is used at 0.5% to 1.0% based on the total weight of the formulation to inhibit fungal deterioration. For solvent-based formulations Busan 30 can be dissolved in appropriate solvent combinations of aromatic and aliphatic solvents and added in the hot down or added directly to the finished product. For water-thinned latex or water-based formulations, Busan 30 can be pre-dissolved in wetting agent and added to the pigment or simply added to the hot down or finished product. **DRILLING FLUIDS:** To inhibit bacterial and fungal degradation of the fluids or mud used in the drilling of wells, Busan 30 is incorporated in the drilling fluid at concentrations of 0.05 to 0.25% based on the total wet weight of the fluid. **PETROLEUM SECONDARY RECOVERY:** Busan 30 is used to control sulfate-reducing bacteria, slime-forming bacteria and fungi in oil-field water, polymer, or surfactant water-disposal systems, and other oil-field water systems at dosage rates of 0.5 to 3.7 lb of Busan 30 per 1000 gal of water treated. Additions should be made continuously or intermittently by means of

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AN 30

BEST AVAILABLE COPY

Trade mark.

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CHILDREN

DIRECTIONS FOR USE

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

- 30.0%
- 70.0%
- 100.0%

PESTICIDES
DOMESTIC ANIMALS

skin irritation. This product may not get in eyes, on skin, or on gloves when handling. Wash contaminated clothing and

seek medical attention. If on skin, seek attention. If swallowed, drink solution or, if these are not available, Get medical attention. Do not induce gastric lavage. Do not use in offshore lakes, streams, ponds, or wetlands. For guidance, contact the manufacturer.

Store in a cool, dry place or store near heat or open flame.

HAZARDOUS

Do not stack more than five layers. Leaking or damaged containers should be disposed of immediately. Spills should be absorbed with absorbent material. Keep containers closed.

Hazardous. Impr. per disposal instructions of Federal law. If these instructions are not available, contact your local health department or the Hazardous Waste Agency.

Then offer for recycling or other secondary landfill, or by other means.

Technical assistance in applying Busean 30 for microorganism control as described in this labeling is available upon request when a description of the problem is provided. **LEATHER:** Busean 30 is used at treatment rates of 0.25 to 2 lb/1000 lb of white weight stock to prevent the bacterial or fungal degradation of salt-cured hides and skins and to prevent mold growth on chrome- or vegetable-tanned hides and skins. For treating hides cured with dry salt, Busean 30 should be sprinkled on the hides or should be mixed with the salt before it is applied to the hides. For treating tanned hides, Busean 30 should be dispersed in water and added to the pickling solution or to the tanning liquor at the start of the tanning operation. For preservation of leather-finishing pastes and fat liquors, Busean 30 is added to the pastes at 0.10 to 0.25% by weight of treated paste and mixed to ensure adequate dispersion. **PULP MILLS:** To protect wood chips from fungal degradation during storage, Busean 30 is used at 0.5 to 2 lb/ton of oven-dry wood. It can be applied through a water shower or spray located in the pneumatic conveyor carrying chips from the chipper to the storage pile. For preservation of wet lap or sheet pulp, Busean 30 is used at 0.5 to 4 lb/ton of oven-dry fiber. It is applied to the surfaces of the dewatered pulp by means of sprays or applicator rolls. **PAPER MILLS:** To control bacterial and fungal growth on paper and paperboard machines, Busean 30 is added to the white water or stock at 0.1 to 0.5 lb/ton of dry paper or paperboard produced. To make mold-resistant paper or paperboard, Busean 30 is used at 0.05 to 0.1 lb/1000 sq ft (0.15 to 0.3 lb/3000 sq ft) of surface. For coated paper or board, Busean 30 is incorporated in the coating mix prior to application of the coating. For uncoated paper or board, Busean 30 is dispersed in water, surface-sizing solution, or other solvent and applied to the surface to be protected by means of an applicator roll. For the preservation of agricultural mulch paper, Busean 30 is used at 1.5 to 5 lb/ton air-dry paper. It is applied to the surfaces of the mulch paper by sub-sizing methods or by means of sprays or applicator rolls before the paper is coated. **PARTICLE BOARD:** Busean 30 is employed as a preservative for particle board, insulation board, and other wood-base fiber and particle panel materials. In this use, Busean 30 is mixed with the resin or binding agent at 0.1 to 1% based on the dry weight of the wood. **SAP STAIN CONTROL:** Busean 30 is used to control sap stain and mold on freshly cut softwood and hardwood lumber, logs, poles, posts, and timbers. It is applied by dipping, spraying, or pressure impregnation of the wood with a dispersion containing 0.5 to 8 gal of Busean 30 per 100 gal of water. Treatment should be made within 24 hr of cutting or sawing, particularly in warm weather, and treated wood should not be exposed to heavy rains soon after treatment. **COOLING TOWERS:** Busean 30 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by spraying or painting a dispersion containing 0.5 to 0.7% Busean 30 in water onto the clean wood surfaces. The amount applied should provide 0.6 to 0.8 lb Busean 30 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of Busean 30 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 1.25 lb of Busean 30 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after treatment. The shock treatment should be repeated every four months. **COOLING WATER:** Busean 30 is used to control algae, bacteria, and fungi in industrial recirculating cooling water systems. Before treatment is begun, the system should be cleaned thoroughly to remove old algal growth, microbiological slime, and other deposits. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 0.6 to 3.7 fl oz Busean 30 per 1000 gal water in the system. Subsequent additions of 0.2 to 1.2 fl oz per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and severity of microbiological fouling. **COATINGS, CAULKING-SEALANTS & WALLCOVERING ADHESIVES:** Sufficient mixing to ensure adequate dispersion of the biocide is required. Busean 30 is used at levels between 0.5% and 5.0% based on the total weight of the formulation to inhibit fungal discoloration and deterioration. For solvent-based formulations Busean 30 can be dissolved in aromatic solvents or combinations of aromatic and aliphatic solvents and added in the lat down or added directly to the finished products. For water-thinned latex emulsions formulations, Busean 30 can be premixed with the wetting agent and added to the pigment slurry or simply added to the lat down or finished product. **DRILLING FLUIDS:** To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, Busean 30 is incorporated in the drilling fluid at concentrations of 0.05 to 0.25% based on the total wet weight of the fluid. **PETROLEUM SECONDARY RECOVERY:** Busean 30 is used to control sulfate-reducing bacteria, slime-forming bacteria and fungi in oil-field water, polymer, or micellar floods, water-disposal systems, and other oil-field water systems at dosage rates of 0.2 to 3.7 fl oz of Busean 30 per 1000 gal of water treated. Additions should be made continuously or intermittently by means of

watering pump at the free water knockouts, before or after injection pumps and injection well headers. **Centrifugal Feed Method:** When system is noticeably fouled, add 0.6 to 3.7 fl oz Busean 30 per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 0.2 to 1.2 fl oz Busean 30 per 1000 gal of water continuously, or as needed to maintain control. **Intermittent or Slug Method:** When system is noticeably fouled, or to maintain control, add 0.6 to 3.7 fl oz Busean 30 per 1000 gal of water for 4 to 8 hr per day and 1 to 4 times per week, or as needed to maintain control. **CUTTING FLUIDS:** Busean 30 is used to inhibit bacterial and fungal degradation of water-based and water-soluble or emulsifiable cutting fluids and coolants used in metalworking operations. It should be added to the diluted cutting fluid at a rate that will provide 150 to 250 parts per million Busean 30 (weight/weight) after final dilution with water. To prevent fungal growth on the inside walls of the diluted metalworking fluid storage tanks, higher concentrations of Busean 30 are needed. For this application, it is recommended that Busean 30 be added to the diluted fluid as it is prepared to provide a concentration of 1000 to 1250 parts per million. **TEXTILES:** For directions on the use of Busean 30 to protect textiles from fungal degradation, refer to the bulletin "Busean 30 for the Preservation of Textiles". **WASTE WATER TREATMENT SYSTEMS:** When used as directed, Busean 30 controls bacteria and fungal slime in waste water systems and effluents. The quantity of Busean 30 required varies with the degree of fouling. It should be added at a rate that will provide 10 to 30 parts per million Busean 30 (weight/weight) of the waste water. This addition can be made at various points in the system including the influent to the clarifier and/or the holding basins or ponds.

ACCEPTED
in EPA Letter Dated

MAY - 5 1993

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

1448-55

HMIS/NPCA RATING
 Health 3 Flammability 2 Reactivity 1
 EPA Reg. No. 1448-55
 Product Weight 9.0 lbs/gal 1.08 Kg/L
NET CONTENTS MARKED ON CONTAINER
 Manufactured By EPA Est.No 1448 TN-1
BUCKMAN LABORATORIES, INC.
 1256 N. McLean Blvd., Memphis, TN 38108
 (901) 278-0330 or 1-800-BUCKMAN