

MAY 9 1994

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

Dear Mr. Barbee:

Subject: Revised Labels
BUSAN 11-M1
EPA Registration No. 1448-17
BUSAN 1009
EPA Registration No. 1448-81
BUSAN 1072
EPA Registration No. 1448-101 ✓
BUSAN 11-M3
EPA Registration No. 1448-105
BUSAN 1126
EPA Registration No. 1448-344
Your Submissions Dated April 22, 1994

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you submit one (1) copy of your final printed labeling before you release the product for shipment.

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

Sincerely yours,

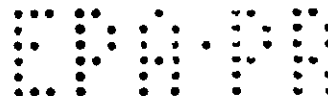
151

Cynthia Giles-Parker
Product Manger (22)
Fungicide Herbicide Branch
Registration Division (7505C)

Enclosure

BUSAN 1072

BUSAN is a registered trademark.



ACTIVE INGREDIENT
2-(Thiocyanomethylthio)
Methylene bis(thiocyanate)
INERT INGREDIENTS
(Contains Petroleum D

KEEP OUT OF REACH OF CHILDREN
DANGER

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear goggles or face shield, a mask or pesticide respirator jointly approved by MSHA and OSHA, protective clothing and shoes, and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

STATEMENT OF PRACTICAL TREATMENT (FIRST AID):

If in eyes: Hold eyelids open and flush with a steady gentle stream of water for 15 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Call a physician or poison control center. Do not induce vomiting. First rinse mouth with large amounts of water or milk. Then slowly give one or two glasses of water or milk. Avoid alcohol. Do not give anything by mouth to an unconscious person. Take individual to the nearest medical facility.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

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

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries or other waters 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.

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 rinsate 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, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
SAPSTAIN AND MOLD CONTROL: Busan 1072 is used to control sapstain and mold on freshly cut hardwood and softwood lumber, logs, poles, posts and timbers. It is applied by dipping or spraying the wood until complete surface wetting is accomplished. Use 0.75 to 6 kg of Busan 1072/100L water (6 to 48 lbs of Busan 1072/100 gal water) and agitate vigorously until Busan 1072 is thoroughly dispersed. Rates to be used will vary according to temperature, humidity, wood moisture, storage conditions, etc. Under conditions suitable for aggressive mold growth, the high rate mentioned above should be used.

Treatment should be made as quickly as possible after lumber is cut and stored.
PAPER MILLS: To control bacterial and fungal growth on paper and paperboard while in stock at 0.2 to 3.0 lb/ton of dry paper or paperboard produced.

COOLING TOWERS: Busan 1072 is used to protect cooling tower wood against algae and fungi. It is applied by spraying or painting a dispersion containing 1.0 to 1.4% Busan 1072. The amount applied should provide 1.2 to 1.6 lb Busan 1072 per 1000 sq ft of wood. Control should be maintained by periodic shock doses of Busan 1072 to the recirculating cooling water at the rate of 2.5 lb of Busan 1072 per 1000 gal of water and the bleedoff should be repeated every four months.

COOLING WATER: Busan 1072 is used to control algae, bacteria, and fungi in cooling water. Before treatment is begun, the system should be cleaned thoroughly to remove deposits. The system should then be drained, flushed, refilled with water, and treated with 0.4 to 0.6 lb Busan 1072 per 1000 gal water in the system. Subsequent additions of 0.4 to 0.6 lb to 5 days, depending on amount of bleedoff and severity of microbiological fouling.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluids used in drilling, Busan 1072 is incorporated in the drilling fluid at concentrations of 0.1 to 0.5% based on the volume of fluid.

PETROLEUM SECONDARY RECOVERY: Busan 1072 is used to control bacteria and fungi in oil-field water, polymer, or micellar floods, water-disposal systems, and other water systems. Rates of 7.8 to 26.0 fl oz of Busan 1072 per 1000 of water treated. Additions should be made by means of a metering pump at the free water knockouts, before or after injection.

Feed Method: When system is noticeably fouled, add 7.8 to 26.0 fl oz Busan 1072 per 1000 gal of water. When desired degree of control is achieved, then treat with 7.8 to 26.0 fl oz Busan 1072 per 1000 gal of water. **Intermittent or Slug Method:** When system is not noticeably fouled, add 26.0 fl oz to Busan 1072 per 1000 gal of water for 4 to 8 hr per day and 1 to 4 times per week.

CRUDE AND REFINED OILS: Busan 1072 is an oil-soluble preservative for crude oil and refined fuel oils during storage. It should be added to the oil at the rate of 1.2 to 12.0 fl oz Busan 1072 per 1000 lb of oil. It should be added to the shipping container to the storage tank at the rate of 1.2 to 12.0 fl oz Busan 1072 per 1000 lb of oil. It should be added to the oil by means of a metering pump at the free water knockouts, before or after injection.

HIDES AND SKINS: Busan 1072 is used to prevent bacterial decomposition of hides and skins. It should be used at a level of 0.6 to 4.0 lb/1000 lb of green fleshed hides or skins. It should be added directly to the raceway during addition of hides and operation of paddles. In practice, a dispersion in water. A satisfactory dispersion of one part Busan 1072 to 100 parts water. Add the Busan 1072 to the water (as opposed to adding water to Busan 1072) and mix thoroughly.

LEATHER: To prevent mold growth on chrome- or vegetable-tanned hides and skins, Busan 1072 should be added to the pickling solution or to the rinse water in post-tanning reflow. Busan 1072 is used at treatment rates of 1.0 to 5.0 lb/1000 lb of hides or skins. It should be added to the pickling solution or to the rinse water in post-tanning reflow.

COATINGS: Busan 1072 is used to protect coatings against discoloration and mold growth. It is used at 1.0 to 18.0% based on the total weight of the coatings. For solvent-based coatings, use aromatic solvents or combinations of aromatic and aliphatic solvents and add Busan 1072 to the solvent. For water-thinned latex emulsion coatings, Busan 1072 can be pre-dispersed in a pigment slurry or simply added to the let down or finished paint. Rates to be used will vary according to substrate condition, etc. Under conditions suitable for aggressive fungal growth.

BEST AVAILABLE COPY

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Manufactured By EPA Est. No. 1
BUCKMAN LABORATORIES
1256 N. McLEAN BLVD., MEMPHIS, TN 38103
(901) 278-0330 or 1-800-BUCKMAN

Rev. 4/21/94

017111

0307

ACCEPTED
with COMMENTS
in EPA Letter Docket

MAY 9 1994

Under the Federal Insecticide
Fungicide, and Rodenticide Act
as amended, is the pesticide
Registration No. EPA Reg. No.
1448-101

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BUSAN 1072

BUSAN is a registered trademark.

ACTIVE INGREDIENTS:

2-(Tricyclopropylthio)benzotriazole 5.0 %
Methylene bis(thiocyanate) 5.0 %

INERT INGREDIENTS:

(Contains Petroleum Distillates) 90.0 %

**KEEP OUT OF REACH OF CHILDREN
DANGER**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, causes irreversible eye damage and skin burns. May be fatal if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist. Wear goggles or face shield, a mask or pesticide respirator jointly approved by MSHA and OSHA, protective clothing and shoes, and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

STATEMENT OF PRACTICAL TREATMENT (FIRST AID):

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If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Call a physician or poison control center. Do not induce vomiting. First rinse mouth with large amounts of water or milk. Then slowly give one or two glasses of water or milk. Avoid alcohol. Do not give anything by mouth to an unconscious person. Take individual to the nearest medical facility.

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

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

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries or other waters 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.

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 rinsate 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, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

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SAPSTAIN AND MOLD CONTROL: Busan 1072 is used to control sapstain and mold on freshly cut hardwood and softwood lumber, logs, poles, posts and timbers. It is applied by dipping or spraying the wood until complete surface wetting is accomplished. Use 0.75 to 6 kg of Busan 1072/100L water (6 to 48 lbs of Busan 1072/100 gal water) and agitate vigorously until Busan 1072 is thoroughly dispersed. Rates to be used will vary according to temperature, humidity, wood moisture, storage conditions, etc. Under conditions suitable for aggressive mold growth, the high rate mentioned above should be used.

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Treatment should be made as quickly as possible after lumber is cut and always within 24 hours after cutting.
PAPER MILLS: To control bacterial and fungal growth on paper and paperboard machines, Busan 1072 is added to the white water or stock at 0.2 to 1.0 lb/ton of dry paper or paperboard produced.
COOLING TOWERS: Busan 1072 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 1.0 to 1.4% Busan 1072 in water onto the clean wood surfaces. The amount applied should provide 1.2 to 1.6 lb Busan 1072 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of Busan 1072 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 2.5 lb of Busan 1072 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: Busan 1072 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 1.2 to 7.4 fl oz Busan 1072 per 1000 gal water in the system. Subsequent additions of 0.4 to 2.4 fl oz per 1000 gal should be made every 1 to 5 days, depending on amount of bleedoff and severity of microbiological fouling.
DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, Busan 1072 is incorporated in the drilling fluid at concentrations of 0.1 to 0.5% based on the total wet weight of the fluid.
PETROLEUM SECONDARY RECOVERY: Busan 1072 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 7.8 to 26.0 fl oz of Busan 1072 per 1000 of water treated. Additions should be made continuously or intermittently by means of a metering pump at the free water knockouts, before or after injection pumps and injection well headers. Continuous Feed Method: When system is noticeably fouled, add 7.8 to 26.0 fl oz Busan 1072 per 1000 gal of water continuously, until desired degree of control is achieved. Then treat with 7.8 to 26.0 fl oz Busan 1072 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 7.8 to 26.0 fl oz to Busan 1072 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.
CRUDE AND REFINED OILS: Busan 1072 is an oil-soluble preservative for the control of bacteria and fungi that cause the degradation of crude oil and refined fuel oils during storage. It should be added to the oil as it is being transferred from the shipping container to the storage tank at the rate of 1.2 to 12.0 fl oz Busan 1072 per 1000 gal of oil. Addition should be made batchwise where mixing occurs or continuously to the suction side of the transfer pump.
HIDES AND SKINS: Busan 1072 is used to prevent bacterial decomposition of brine-cured hides and skins. Busan 1072 should be used at a level of 0.6 to 4.0 lb/1000 lb of green fleshed hides or skins. In raceway operations Busan 1072 can be added directly to the raceway during addition of hides and operation of paddles. In processor operations Busan 1072 should be added as a dispersion in water. A satisfactory dispersion of one part Busan 1072 plus four parts water can be prepared by adding the Busan 1072 to the water (as opposed to adding water to Busan 1072) with agitation.
LEATHER: To prevent mold growth on chrome- or vegetable-tanned hides and skins during tanning or post-tanning operations prior to finishing. Busan 1072 is used at treatment rates of 1.0 to 5.0 lb/1000 lb of white weight stock. A dispersion as described above should be prepared and added to the pickling solution or the tanning liquor during the tanning operation or to the rinse water in post-tanning reflow.
COATINGS: Busan 1072 is used to protect coatings against discoloration and deterioration by fungi. Busan 1072 is added at 1.0 to 18.0% based on the total weight of the coatings. For solvent-based coatings the Busan 1072 can be dissolved in aromatic solvents or combinations of aromatic and aliphatic solvents and added to the let down or added directly to the finished paints. For water-thinned latex emulsion coatings, Busan 1072 can be premixed with the wetting agent and added to the pigment slurry or simply added to the let down or finished paint. Rates to be used will vary according to temperature, humidity, substrate condition, etc. Under conditions suitable for aggressive fungal growth, the high rate mentioned above should be used.

Product Weight: 8.3 lbs./gal. .99 kg/l
NET CONTENTS MARKED ON CONTAINER

EPA Reg. No. 1448-101

Manufactured By EPA Est. No. 1448-TN-1

BUCKMAN LABORATORIES, INC.

1256 N. McLEAN BLVD., MEMPHIS, TN 38108 USA

(901) 278-0330 or 1-800-BUCKMAN

Rev. 5/19/94

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