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Buckman Labs, Inc.
1256 North McLean Boulevard
P.O. Box 8305
Memphis, TN 38108

Gentlemen:

Subject: BUSAN 1009
EPA Registration No. 1448-81
Your Submission Dated June 13, 1988

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

However, for wetlap or sheet pulp and for particle board, qualify the board claim "preservative" by indicating the types of pests intended to be controlled.

Sincerely yours,

LSI

Lois A. Rossi
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

50489:I:DeLuise:LR-3:KENCO:8/4/88:8/12/88:Am:EK:CB:EK:CB
R:50499:DeLuise:LR-3:KENCO:8/8/88:8/18/88:Am:

CONCURRENCES

SYMBOL	SURNAME	DATE					

BUSAN[®] 1009

ACTIVE INGREDIENTS:
Methylene bis(thiocyanomethyl)
2-(Thiocyanomethyl)
INERT INGREDIENTS
EP

This product

**KEEP OUT OF REACH OF CHILDREN
DANGER**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, causes irreversible eye damage and causes skin damage. Harmful or fatal if swallowed or absorbed through the skin. This product is a potential skin sensitizer. Workmen handling this product or treated material should wear impervious gloves, goggles or face shield, and protective clothing. All protective clothing, work shoes or boots, and equipment must be left at the work at the end of the day. Eating, drinking, or smoking during use of this product is prohibited.

FIRST AID: In case of skin contact, wash promptly and thoroughly with soap and water and finally with glycerin. If product gets in the eyes, flush immediately with copious amounts of clean, cool water for 15 to 30 minutes. Get medical attention immediately. If product is swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not apply directly to water or wetlands. Permits may be required for discharges containing this pesticide into lakes, streams, ponds, or public waters. For guidance, contact the regional office of the Environmental Protection Agency.

STORAGE & 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 incinerate 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 1009 is used to control 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 1.4 to 11.0 kg of Busan 1009/100 L water (3 to 24 lbs of Busan 1009/100 gal water) and agitate vigorously until Busan 1009 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 always within 21 hours after cutting.

PAPER MILLS: To control bacteria and fungal growth on paper and paperboard machines, Busan 1009 is added to the white water or stock at 0.1 to 0.5 lb/ton of dry paper or paperboard produced. To inhibit the growth of bacteria and fungi in papermaking additives (including alum solutions, animal glue solutions, pigment slurries, coating formulations, and starch slurries and solutions) Busan 1009 is added to these materials in concentrations of 50-400 ppm (weight/weight). Pulp that may be held in storage for 8 hours to 1 week should be treated with 0.25 to 0.75 kg of Busan 1009 per tonne (0.5 to 1.5 lb per ton) of moisture-free pulp. Busan 1009 may be added to contaminated fresh water at the rate of 0.25-1 ppm for treatment periods of 8-12 hours out of each 24 hours.

COOLING TOWERS: Busan 1009 is used to protect cooling tower or dry rot. It is applied by spraying or painting a dispersion containing clean wood surfaces. The amount applied should provide 0.6 to 0.8 fl oz of Busan 1009 per 1000 gal of water. Soft or surface rot can also be inhibited by periodic shock doses of 0.6 to 0.8 fl oz of Busan 1009 per 1000 gal of water at the tower basin or cold well. The dosage should provide 1.25 lb of Busan 1009 per 1000 gal of water. Shock treatment should be stopped for 4 to 8 hr after treatment. The shock treatment should be repeated every 1 to 5 days, depending on the extent of the rot.

COOLING WATER: Busan 1009 is used to control algae, bacteria, and fungi in cooling water systems. Before treatment is begun, the system should be cleaned of microbological slime, and other deposits. The system should then be treated with an initial dose of 0.6 to 3.7 fl oz Busan 1009 per 1000 gal water. A maintenance dose of 0.6 to 3.7 fl oz Busan 1009 per 1000 gal water should be made every 1 to 5 days, depending on the extent of microbological fouling.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of wood, Busan 1009 is incorporated in the drilling fluid at concentrations of 0.25 to 0.5 lb of Busan 1009 per 1000 gal of the fluid.

PETROLEUM SECONDARY RECOVERY: Busan 1009 is used to control bacteria and fungi in oil-field water, polymer, or micellar floods, water systems at dosage rates of 3.9 to 13.0 fl oz of Busan 1009 per 1000 gal of water continuously or intermittently by means of a metering pump at the injection pumps and injection well headers. Continuous Feed Method: When system is noticeably fouled, or to maintain control, add 3.9 to 13.0 fl oz Busan 1009 per 1000 gal of water continuously, or a Slug Method: When system is noticeably fouled, or to maintain control, add 3.9 to 13.0 fl oz Busan 1009 per 1000 gal of water for 4 to 8 hr per day and 1 to 4 times per week, or as needed.

CRUDE AND REFINED OILS: Busan 1009 is an oil-soluble preservative that causes the degradation of crude oil and refined fuel oils during storage. It is transferred from the shipping container to the storage tank at the rate of 0.25 to 0.5 lb of Busan 1009 per 1000 gal of oil. Addition should be made batchwise where mixing occurs or continuously.

HIDES AND SKINS: Busan 1009 is used to prevent bacterial decomposition of hides and skins. Busan 1009 should be used at a level of 0.3 to 2.0 fl oz/1000 lb of green fleshed hides and skins. Busan 1009 can be added directly to the recaway during addition of hides and skins. Busan 1009 should be added as a dispersion in water. A satisfactory four parts water can be prepared by adding the Busan 1009 to the water (1009) with agitation.

LEATHER: To prevent mold growth on chrome- or vegetable-tanned leather, Busan 1009 is used at treatment rates of 0.25 to 0.5 lb of Busan 1009 per 1000 lb of leather. A dispersion as described above should be prepared and added to the tanning operation or to the rinse water in a post-tanning refloat tank.

COATINGS: Busan 1009 is used to formulate coatings that are mold resistant. Use levels will vary from 0.5 to 9.0% based on the total weight of the coating. Use levels will vary from 0.5 to 9.0% based on the total weight of the coating. Use levels will vary from 0.5 to 9.0% based on the total weight of the coating. Refer to the booklet "Busan 1009 for Wood-Protective Coatings" for more information.

PULP MILLS: To protect wood chips from fungal degradation during storage, Busan 1009 is applied through a water shower or spray located in the dry wood pile. For preservation of wet log or sheet pulp, Busan 1009 is applied to the surfaces of the dewatered pulp by means of sprays or showers. Busan 1009 should be treated with 0.25 to 0.75 kg of Busan 1009 per tonne (0.5 to 1.5 lb per ton) of moisture-free pulp.

PARTICLE BOARD: Busan 1009 is employed as a preservative for particle board and particle panel materials. In this use, Busan 1009 is mixed with the dry weight of the wood.

AUG 11 1988

MANUFACTURED BY

BUCKMAN LABORATORIES

1000 N. McLEAN BLVD., MEMPHIS, TN 38103

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