



BUSAN[®] 1009

ACTIVE INGREDIENTS	
Methylene bis(thiocyanate)	10%
2 (Thiocyanomethylthio)benzothiazole	10%
INERT INGREDIENTS	
	80%

EPA REG. NO. 1448-B1

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 site 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 water. For guidance, contact the regional office of the Environmental Protection Agency.

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 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 3.0 kg of Busan 1009/100 L water (12 to 25 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 24 hours after cutting.

PAPER MILLS: To control bacterial 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.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluids or muds used in the drilling of wells. Busan 1009 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 1009 is used to control sulfate reducing bacteria, slime forming bacteria, and fungi in oil field water, polymer, or micellar fluids, water disposal systems, and other oil field water systems at dosage rates of 1.2 to 4.0 fl oz of Busan 1009 per 1000 gal 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 1.2 to 4.0 fl oz Busan 1009 per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 1.2 to 2.0 fl oz Busan 1009 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 1.2 to 4.0 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 to maintain control.

CRUDE AND REFINED OILS: Busan 1009 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 0.6 to 6.0 fl oz Busan 1009 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 1009 is used to prevent bacterial decomposition of brine-cured hides and skins. Busan 1009 should be used at a level of 0.3 to 2.0 lb/1000 lb of green fleshed hides or skins. In raceway operations Busan 1009 can be added directly to the raceway during addition of hides and operation of paddles. In processor operations Busan 1009 should be added as a dispersion in water. A satisfactory dispersion of one part Busan 1009 plus four parts water can be prepared by adding the Busan 1009 to the water (as opposed to adding water to Busan 1009) 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 1009 is used at treatment rates of 0.5 to 2.5 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 a post-tanning refloat.

COATINGS: Busan 1009 is used to control fungi in paint films. Use levels will vary from 0.5 to 5.0% based on the total weight of the formulation. The exact level to use will depend on the severity of contamination as well as the nature and amounts of other components of the formulation.

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.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or residue 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.

MANUFACTURED BY

BUCKMAN LABORATORIES, INC.

1256 N. McLEAN BLVD. MEMPHIS, TENN. 38108, U.S.A.

EPA EST. NO. 1448-TN-1

BEST DOCUMENT AVAILABLE



Product Applications

5/14/84

Busan® 1009

(Patents issued or pending in the U.S.A. and other countries)

Use in Reverse Osmosis Water Purification Systems

Busan 1009 is employed to control bacterial and fungal growth in polymer products used to inhibit mineral scale formation in reverse osmosis water purification systems and in the purification systems to control the growth of fouling microorganisms. The purified water produced by these systems is used in diverse industrial, nonpotable applications. Busan 1009 is applied at appropriate levels to provide in-drum protection, mixing-tank protection, or purification system protection.

Anti-scalant products containing about 35% active polymer are treated with 1500 parts per million (ppm) of Busan 1009 (216 fl oz Busan 1009/1000 gal product) to provide in-drum protection during shipment, storage,

and use. Addition of the treated anti-scalant polymer products to mixing tanks at 1 + 24 to 1 + 2 dilutions provides *in situ* levels of Busan 1009 of 60-500 ppm, respectively, that protect the formulation in the mixing tank from microbial degradation. Alternatively, 50-500 ppm of Busan 1009 (61-610 fl oz Busan 1009/10,000 gal dilutions) can be added directly to mixing tanks to protect dilutions of untreated or inadequately treated anti-scalant products.

To control growth of bacteria and fungi in the reverse osmosis feed stream, Busan 1009 can be added to the stream via the anti-scalant polymer mixing tank to provide a concentrate of 10 ppm Busan 1009 (1.22 fl oz Busan 1009/10,000 gal water) in the feed stream.

Recommendations given in this Bulletin are based on tests believed to be reliable. However, the use of the product is beyond the control of Buckman Laboratories, Inc., and no guarantee, express or implied, is made as to the effects of such use. Results to be obtained must be used in accordance with directions or established safe practice. The buyer must assume all responsibility, including financial damage, resulting from use of the product as such, or in combination with other materials. This Bulletin is not to be taken as a license to operate under or recommendation to infringe any patent.

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NO DOCUMENT AVAILABLE

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Buckman Laboratories also in Australia, Belgium, Brazil, Canada, Japan, Mexico, South Africa.

Buckman Laboratories, Inc.
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JUN 15 1984

Attention: Grace Ponner

Gentlemen:

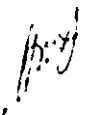
Subject: Busan 1009
EPA Registration No. 1448-81
Your Letter Dated May 16, 1984

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable subject to the comments listed below. Five copies of the finished labeling must be submitted at the next printing.

1. Under Coatings, the phrase "control fungi in paint films" is slightly ambiguous and should be changed to "control mildew growth on the dried paint film."
2. Add a statement to the label which indicates the product weight per gallon.

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

Sincerely yours,


Henry M. Jacoby
Product Manager (21)
Fungicide-Herbicide Branch
Registration Division (TS-767)

Enclosure

RD/FHB:PCR-17001:Jacobey:GG:Raven:557-2226:RD-06A:6/13/84:Del.6/30/84

SYMBOL									
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DATE									

EPA 1320-48

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