

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



Office of Pesticide Programs

Buckman Laboratories, Inc.
1256 N. McLean Blvd.
Memphis, TN 38108

NOV 10 2009

Attention: Carl F. Watson, Ph.D
Senior Regulatory Toxicologist

Subject: BUSAN 1070
EPA Registration No. 1448-102
Amendment Dated August 18, 2009

The amendment, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable.

- Revised Labeling

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

If you have any questions concerning this letter, please contact Martha Terry at (703) 308-6217.

Sincerely

Marshall Swindell
Product Manager (33)
Regulatory Management Branch 1
Antimicrobials Division (7510P)

Enclosure



BUSAN 1071

BUSAN is a registered trademark.

ACTIVE INGREDIENT(S)	
2-(Thiocyanomethylthio)benzothiazole.....	2.5%
Methylene bis(thiocyanate).....	2.5%
INERT INGREDIENTS.....	95.0%
(Contains Petroleum Distillates)	
TOTAL.....	100.0%

One gallon of product contains 0.215 lbs of each active ingredient.

KEEP OUT OF REACH OF CHILDREN DANGER PELIGRO

FIRST AID	
If in Eyes	- Hold eye open and rinse slowly and gently with water for 15-20 minutes. - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. - Call a poison control center or doctor for further treatment advice.
If on Skin, Clothes	- Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15-20 minutes. - Call a poison control center or doctor for treatment advice.
If Swallowed	- Call poison control center or doctor immediately for treatment advice. - Have person sip a glass of water, if able to swallow. - Do not induce vomiting unless told to do so by the poison control center or doctor. - Do not give anything by mouth to an unconscious person.
If Inhaled	- Move person to fresh air. - If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. - Call a poison control center or doctor for further treatment advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a Poison Control Center or doctor or going for treatment. You may also contact 901-278-0330 or 1-800-BUCKMAN for emergency medical treatment information.	
NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage or skin burns. May be fatal if swallowed or absorbed through skin or inhaled. Do not get in eyes, on skin, or on clothing. Do not breathe spray mist. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

Personal Protective Equipment (PPE)

Applicators and all other handlers must wear: Coveralls over long-sleeved shirt and long pants; socks and chemical resistant footwear; goggles or face shield; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton; and respirator with an organic vapor removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C); or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G); or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter. In addition to the PPE listed above, mixers, loaders, and cleaners of equipment must also wear chemical-resistant apron.

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, oceans 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.

PHYSICAL AND CHEMICAL HAZARDS: Do not expose to extreme temperatures.

Directions for Use

It is a violation of Federal law to use this product in a manner inconsistent with its label. **NOTE TO USER:** Do not apply this product in a way that will contact workers or other persons. **SAPSTAIN AND MOLD CONTROL:** Busan 1071 is used to control sapstain on softwood lumber, logs, poles, posts and timbers. It is applied by dipping the wood in a solution of 2.4 to 14.8 fl oz Busan 1071 per 1000 gal water (12 to 96 lbs of Busan 1071 per 1000 gal water) vigorously until Busan 1071 is thoroughly dispersed. Rates to be used will vary with moisture, storage conditions, etc. Under conditions suitable for aggressive mold, treatment should be made as quickly as possible after lumber is cut.

PAPER MILLS: To control bacterial and fungal growth on paper and paperboard, apply 0.4 to 2.0 lb/ton of dry paper or paperboard produced.

COOLING TOWERS: Busan 1071 is used to protect cooling tower wood against bacterial and fungal growth. It is applied by painting a dispersion containing 2.0 to 2.8% Busan 1071 in water on the wood surface. Periodic shock doses of Busan 1071 to the recirculating cooling water at the tower provide 5.0 lb of Busan 1071 per 1000 gal of water and the bleedoff should be shock treatment should be repeated every four months.

COOLING WATER: Busan 1071 is used to control algae, bacteria, and fungi in cooling water. Before treatment is begun, the system should be cleaned thoroughly to remove slime, and other deposits. The system should then be drained, flushed, and refilled with 2.4 to 14.8 fl oz Busan 1071 per 1000 gal water in the system. Subsequent shock doses should be made every 1 to 5 days, depending on amount of bleedoff and severity.

DRILLING FLUIDS: To inhibit bacterial and fungal degradation of the fluids or slurries, Busan 1071 is incorporated in the drilling fluid at concentrations of 0.2 to 1.0% based on weight.

PETROLEUM SECONDARY RECOVERY: Busan 1071 is used to control sulfate and fungi in oil-field water, polymer, or micellar floods, water-disposal systems, and rates of 15.6 to 52.0 fl oz of Busan 1071 per 1000 gal of water treated. Add intermittently by means of a metering pump at the free water knockouts, before headers. **Continuous Feed Method:** When system is noticeably fouled, add 15.6 fl oz water continuously until desired degree of control is achieved. Then treat with 1 fl oz of water continuously, or as needed to maintain control. Intermittent or Slug Met to maintain control, add 15.6 to 52.0 fl oz Busan 1071 per 1000 gal of water 1 week, or as needed to maintain control.

CRUDE AND REFINED OILS: Busan 1071 is an oil-soluble preservative for the degradation of crude oil and refined fuel oils during storage. Crude and refined aromatic, paraffinic, and naphthenic oils. It should be added to the oil as it is being pumped to the storage tank at the rate of 2.4 to 24.0 fl oz Busan 1071 per 1000 gal of where mixing occurs or continuously to the suction side of the transfer pump.

FUEL: To eliminate and/or prevent the growth of fungi and bacteria in stored fuels (No. 2, biodiesel, and bunker C), Busan 1071 should be added to fuel at a rate of 1 fl oz per 1000 gal. Addition should be made during fuel transfer to ensure adequate mixing. Busan 1071 should be added at shock treatment levels (see table below). For clean fuels, add at maintenance treatment levels (see table below).

Gallons of fuel	Shock treatment	Maintenance
20	0.5 fluid ounces	
40	1.0 fluid ounces	
60	1.5 fluid ounces	
100	2.5 fluid ounces	

Busan 1071 is NOT for use in Aviation Fuels.

HIDES AND SKINS: Busan 1071 is used to prevent bacterial decomposition of hides and skins. It should be used at a level of 1.2 to 8.0 lb/1000 lb of green fleshed hides or skins. It should be added directly to the raceway during addition of hides and operation of pad should be added as a dispersion in water. A satisfactory dispersion of one part Busan 1071 to 100 parts water (as opposed to adding Busan 1071 to the water) should be prepared by adding the Busan 1071 to the water (as opposed to adding water to the Busan 1071).

LEATHER: To prevent mold growth on chrome- or vegetable-tanned hides, a dispersion of Busan 1071 in water should be added to the chrome- or vegetable-tanned hides prior to finishing. Busan 1071 is used at treatment rates of 2.4 to 24.0 fl oz per 1000 gal of water. A satisfactory dispersion of one part Busan 1071 to 100 parts water should be prepared and added to the chrome- or vegetable-tanning operation or to the rinse water in a post-tanning refloat.

COATINGS: Busan 1071 is used to control fungal growth on coatings. Use level of 2.4 to 24.0 fl oz per 1000 gal of water. The exact level will depend on the severity of mold and the amounts of other components of the formulation.

Under the Federal Insecticide, Fungicide, and Rodenticide Act, amended for the first time, registered under EPA

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.....	2.5%
.....	2.5%
.....	95.0%
.....	100.0%

each active ingredient.
H OF CHILDREN
PELIGRO

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 / with water for 15-20 minutes.
 ne first 5 minutes, then continue rinsing eye.
 urther treatment advice.

er for 15-20 minutes.
 reatment advice.

riately for treatment advice.
 o swallow.
 io by the poison control center or doctor.
 nscious person.

1 ambulance, then give artificial respiration,
 urther treatment advice.

MBER

when calling a Poison Control Center
 o contact 901-278-0330 or 1-800-
 nformation.

SICIAN

ate the use of gastric lavage.

Statements

DOMESTIC ANIMALS
 e or skin burns. May be fatal if swallowed or
 skin, or on clothing. Do not breathe spray mist.
 llergic reaction in some individuals.

er long-sleeved shirt and long pants; socks and
 nical-resistant gloves such as barrier laminate,
 lorida or viton; and respirator with an organic
 sticides (MSHA/NIOSH approval number prefix
 NIOSH approval number prefix TC-14G); or a
 rtridge or canister with any R, P, or HE prefilter.
 leaners of equipment must also wear chemical-

ish. For terrestrial uses, do not apply directly to
 tertidal areas below the mean high water mark.
 es, streams, ponds, estuaries, oceans or other
 ational Pollutant Discharge Elimination System
 notified in writing prior to discharge. Do not
 is without previously notifying the local sewage
 Water Board or Regional Office of the EPA.

to extreme temperatures.

Directions for Use

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

NOTE TO USER: Do not apply this product in a way that will contact workers or other persons.

SAPSTAIN AND MOLD CONTROL: Busan 1071 is used to control sapstain and mold on freshly cut hardwood and softwood lumber, logs, poles, posts and timbers. It is applied by dipping the wood until complete surface wetting is accomplished. Use 5.6 to 44.0 kg of Busan 1071/100 L water (12 to 96 lbs of Busan 1071/100 gal water) and agitate vigorously until Busan 1071 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 1071 is added to the white water or stock at 0.4 to 2.0 lb/ton of dry paper or paperboard produced.

COOLING TOWERS: Busan 1071 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by painting a dispersion containing 2.0 to 2.8% Busan 1071 in water onto the clean wood surfaces. The amount applied should provide 2.4 to 3.2 lb Busan 1071 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by periodic shock doses of Busan 1071 to the recirculating cooling water at the tower basin or cold well. The dosage should provide 5.0 lb of Busan 1071 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 1071 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 2.4 to 14.8 fl oz Busan 1071 per 1000 gal water in the system. Subsequent additions of 0.8 to 4.8 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 1071 is incorporated in the drilling fluid at concentrations of 0.2 to 1.0% based on the total wet weight of the fluid.

PETROLEUM SECONDARY RECOVERY: Busan 1071 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 15.6 to 52.0 fl oz of Busan 1071 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 15.6 to 52.0 fl oz Busan 1071 per 1000 gal of water continuously until desired degree of control is achieved. Then treat with 15.6 to 52.0 fl oz Busan 1071 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 15.6 to 52.0 fl oz Busan 1071 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 1071 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. Crude and refined oils include, but are not limited to, olefinic, aromatic, paraffinic, and naphthenic oils. It should be added to the oil as it is being transferred from the shipping container to the storage tank at the rate of 2.4 to 24.0 fl oz Busan 1071 per 1000 gal of oil. Addition should be made batchwise where mixing occurs or continuously to the suction side of the transfer pump.

FUEL: To eliminate and/or prevent the growth of fungi and bacteria in stored fuel (e.g. gasoline, biofuel, diesel #1, diesel #2, biodiesel, and bunker C), Busan 1071 should be added to fuel at a rate of 1.25 to 2.5 fluid ounces per 100 gallons of fuel. Addition should be made during fuel transfer to ensure adequate mixing. For contaminated storage systems, Busan 1071 should be added at shock treatment levels (see table below). For clean fuel storage systems, Busan 1071 should be added at maintenance treatment levels (see table below).

Gallons of fuel	Shock treatment	Maintenance treatment
20	0.5 fluid ounces	0.25 fluid ounces
40	1.0 fluid ounces	0.5 fluid ounces
60	1.5 fluid ounces	0.75 fluid ounces
100	2.5 fluid ounces	1.25 fluid ounces

Busan 1071 is NOT for use in Aviation Fuels.

HIDES AND SKINS: Busan 1071 is used to prevent bacterial decomposition of brine-cured hides and skins. Busan 1071 should be used at a level of 1.2 to 8.0 lb/1000 lb of green fleshed hides or skins. In raceway operations Busan 1071 can be added directly to the raceway during addition of hides and operation of paddles. In processor operations Busan 1071 should be added as a dispersion in water. A satisfactory dispersion of one part Busan 1071 plus four parts water can be prepared by adding the Busan 1071 to the water (as opposed to adding water to Busan 1071) 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 1071 is used at treatment rates of 2.0 to 36.0% based on the weight of the white weight stock. A dispersion as described above should be prepared and added to the tanning liquor or the tanning liquor during the tanning operation or to the rinse water in a post-tanning refloat.

COATINGS: Busan 1071 is used to control fungal growth on coatings. Use levels will vary from 2.0 to 36.0% based on the total weight of the formulation. The exact level will depend on the severity of mold infestation as well as the nature and amounts of other components of the formulation.

Under the Federal Insecticide,
 Fungicide, and Rodenticide Act as
 amended for the pesticide,
 registered under EPA Reg. No. 1448-1D2

Storage

Do not contain by storage or disposal. Spill should be placed in a sanitary landfill when not in use. Pesticide wastes are a resulting from excess pesticide rinsate must be at an approved waste cannot according to your State Pollution Control Agency Waste Regional Office. CONTAINER (or equivalent) or reconditioning dispose of incineration, local authority stay out of sm

Manufactured by
Buckman
 Memphis
 (901) 278-0330

EPA Est. No.
 EPA Reg. No.
 Product Weight
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AGGREGATE
 with COMMENTS
 EPA Letter Dated:
 NOV 1 9 2009

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Directions for Use

Use this product in a manner inconsistent with its labeling. Apply this product in a way that will contact workers or other persons. CONTROL: Busan 1071 is used to control sapstain and mold on freshly cut hardwood and poles, posts and timbers. It is applied by dipping the wood until complete surface wetting is achieved. 44.0 kg of Busan 1071/100 L water (12 to 96 lbs of Busan 1071/100 gal water) and agitate until thoroughly dispersed. Rates to be used will vary according to temperature, humidity, wood species, etc. Under conditions suitable for aggressive mold growth, the high rate mentioned above should be made as quickly as possible after lumber is cut and always within 24 hours after

Onset of bacterial and fungal growth on paper and paperboard machines, Busan 1071 is added to the water at 2.0 lb/ton of dry paper or paperboard produced.

Busan 1071 is used to protect cooling tower wood against soft or surface rot and internal or dry rot. It is applied by dipping the wood into a solution containing 2.0 to 2.8% Busan 1071 in water onto the clean wood surfaces. The amount is 3.2 lb Busan 1071 per 1000 sq ft of wood surface. Soft or surface rot can also be inhibited by adding Busan 1071 to the recirculating cooling water at the tower basin or cold well. The dosage should be 71 per 1000 gal of water and the bleedoff should be stopped for 4 to 6 hr after treatment. The procedure is repeated every four months.

Busan 1071 is used to control algae, bacteria, and fungi in industrial recirculating cooling water systems. When the system is begun, the system should be cleaned thoroughly to remove old algal growth, microbiological sludge, etc. The system should then be drained, flushed, refilled with water, and treated with an initial dose of 0.8 to 4.8 fl oz per 1000 gal water in the system. Subsequent additions of 0.8 to 4.8 fl oz per 1000 gal water, depending on amount of bleedoff and severity of microbiological fouling.

Busan 1071 is used to control sulfate-reducing bacteria, slime-forming bacteria, and bit bacterial and fungal degradation of the fluids or muds used in the drilling of wells, Busan 1071 is added to the drilling fluid at concentrations of 0.2 to 1.0% based on the total wet weight of the fluid.

RECOVERY: Busan 1071 is used to control sulfate-reducing bacteria, slime-forming bacteria, and micellar floods, water-disposal systems, and other oil-field water systems at dosage of 0.8 to 4.8 fl oz per 1000 gal of water treated. Additions should be made continuously or at a metering pump at the free water knockouts, before or after injection pumps and injection well.

Method: When system is noticeably fouled, add 15.6 to 52.0 fl oz Busan 1071 per 1000 gal of water. When a desired degree of control is achieved, then treat with 15.6 to 52.0 fl oz Busan 1071 per 1000 gal of water. Intermittent or Slug Method: When system is noticeably fouled, or 5.6 to 52.0 fl oz Busan 1071 per 1000 gal of water for 4 to 8 hr per day and 1 to 4 times per week to maintain control.

Use: Busan 1071 is an oil-soluble preservative for the control of bacteria and fungi that cause the degradation of refined fuel oils during storage. Crude and refined oils include, but are not limited to, olefinic, aromatic, and paraffinic oils. It should be added to the oil as it is being transferred from the shipping container at a rate of 2.4 to 24.0 fl oz Busan 1071 per 1000 gal of oil. Addition should be made batchwise continuously to the suction side of the transfer pump.

Use: To prevent the growth of fungi and bacteria in stored fuel (e.g. gasoline, biofuel, diesel #1, diesel #2, etc.), Busan 1071 should be added to fuel at a rate of 1.25 to 2.5 fluid ounces per 100 gallons of fuel during fuel transfer to ensure adequate mixing. For contaminated storage systems, Busan 1071 should be added at the recommended levels (see table below). For clean fuel storage systems, Busan 1071 should be added at the recommended levels (see table below).

Shock treatment	Maintenance treatment
0.5 fluid ounces	0.25 fluid ounces
1.0 fluid ounces	0.5 fluid ounces
1.5 fluid ounces	0.75 fluid ounces
2.5 fluid ounces	1.25 fluid ounces

Use in Aviation Fuels.

Busan 1071 is used to prevent bacterial decomposition of brine-cured hides and skins. Busan 1071 is added to the water at 1.2 to 8.0 lb/1000 lb of green fleshed hides or skins. In raceway operations Busan 1071 is added to the water during addition of hides and operation of paddles. In processor operations Busan 1071 is added to the water. A satisfactory dispersion of one part Busan 1071 plus four parts water can be achieved by adding Busan 1071 to the water (as opposed to adding water to Busan 1071) with agitation.

Busan 1071 is used to prevent bacterial and fungal growth on chrome- or vegetable-tanned hides and skins during tanning or post-tanning operations. Busan 1071 is used at treatment rates of 2.0 to 36.0% based on the weight of the white weight stock. A solution should be prepared and added to the tanning liquor or the tanning liquor during the tanning process. The solution should be added to the tanning liquor during the tanning process.

Busan 1071 is used to control fungal growth on coatings. Use levels will vary from 2.0 to 36.0% based on the weight of the formulation. The exact level will depend on the severity of contamination as well as the nature and extent of the formulation.

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended for the pesticide, registered under EPA Reg. No. 1448-102

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE 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. Wastes resulting from the use of the product, excess pesticide, spray mixture, or rinsate must be collected and disposed at an approved disposal facility. 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 North McLean Blvd.
Memphis, Tennessee 38108, USA
(901) 278-0330 or 1-800-BUCKMAN

EPA Est. No. 1448-TN-1

EPA Reg. No. 1448-102

Product Weight 8.6 lbs./gal. 1.03 kg/L

Net contents are marked on the container.

HMIS / NPCA Ratings

Health 3 Flammability 2 Reactivity 1

Last Revision 7/29/2009

ACCEPTED
with COMMENTS
EPA Letter Dated:
Nov 1, 2009