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



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

MAR 02 2010

Attention: Carl F. Watson, Ph.D.

Subject: BUSAN 52
EPA Registration No. 1448-47
Amendment Dated January 19, 2010

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


Proposed Amendment

- Revise Storage and Disposal Section per PR Notice 2007-4

General Comment

A stamped copy of the "accepted" 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 52

BUSAN is a registered trademark.

ACCEPTED
with COMMENTS
EPA Letter Dated:

2/4
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ACTIVE INGREDIENT(S)
Potassium N-methyldithiocarbamate.....
INERT INGREDIENTS.....
TOTAL.....

26.0%
74.0%
100.0%

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under EPA Reg. No. 1448-47

KEEP OUT OF REACH OF CHILDREN DANGER

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 901-767-2722 for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage. This product may pose an aspiration pneumonia hazard.

Precautionary Statements

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes eye and skin damage. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling. Wash thoroughly after handling. Avoid contamination of food.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with 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 sewage systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

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3/4

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registered under EPA Reg. No. 1448-47

Storage and Disposal

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

PESTICIDE STORAGE: 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:

(Text for all nonrefillable containers)

Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.

{Liquid residue removal statement for nonrefillable containers with capacity of 5 gals or less}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for the later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

{Liquid residue removal statement for nonrefillable containers with capacity of >5 gals}

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

(Text for all nonrefillable containers)

Then offer for recycling if available or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or, if allowed by state and local authorities by burning. If burned, stay out of smoke.

{Text for refillable containers}

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

For containers larger than 55 gallons:

To clean the container prior to refilling or disposal, use a pressure wash as follows: Empty the remaining contents into application equipment or a mix tank. Use a pressure wash system that rinses all interior sides with water and that is rated at >40 psi and >120F. Pressure wash the container for a length of time that ensures that a minimum 25% of the container volume of water is used. During the pressure wash, ensure that the container valve is left open for continuous draining. Collect the rinsate and empty into application equipment or a mix tank or store rinsate for later use or disposal. Allow container to drain for 10 minutes after pressure wash is completed.

For containers 55 gallons and smaller:

To clean the container prior to refilling or disposal, use a triple rinse wash as follows: Empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10 percent full with water. Agitate vigorously. Pour or pump rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this rinsing procedure two more times.

Do not discharge rinsate containing this product 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 rinsate containing this product to sewer systems without prior approval from the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Batch code: _____

Manufactured by Buckman Laboratories, Inc.
1256 North McLean Blvd., Memphis, Tennessee 38108, USA
(901) 278-0330 or 1-800-282-5626

EPA Est. No. 1448-TN-1

EPA Reg. No. 1448-47

Product Weight 10.5 lbs/gal 1.26 kg/L

Net contents are marked on the container.

HMIS / NPCA Ratings

Health 3 Flammability 1 Reactivity 1

Last Revision

11/12/2009

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4/4
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Directions for Use

Under the Federal Insecticide,

Consistent with its labeling as

amended for the pesticide

registered under EPA Reg No.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling as amended for the pesticide registered under EPA Reg No. 1448-47
BUSAN 52 can be dispersed directly from the shipping container by means of a chemical metering pump or suitable measuring containers. It should be mixed thoroughly with the material to be protected in a manner that will ensure uniform distribution of the microbicide. If necessary for uniform distribution, it can be diluted with water to any desired lower concentration. Dilute solutions of BUSAN 52, however, should be used on the same day they are prepared.

BUSAN 52 is used in pulp and paper mills (1) to control bacterial and fungal slime; (2) to inhibit the growth of bacteria that cause the degradation of papermaking chemicals such as animal glue solutions, clay slurries, starch solutions and slurries, and coating formulations.

SLIME CONTROL IN PULP AND PAPER MILLS: For controlling bacterial and fungal slime in pulp and paper mill systems, BUSAN 52 is employed at 125 to 500 g per metric ton (0.25 to 1 lb. per short ton) of pulp or paper produced. Addition may be made continuously or intermittently to the stock or white water as needed to control the growth of microorganisms. As a general rule, intermittent treatment at the specified rates for periods of 2 to 6 hours out of each 8, each 12, or each 24 hours is recommended. The concentrations of BUSAN 52 and the frequency of treatment should be adjusted higher or lower according to the rate of slime accretion. **Furnish:** For treatment of microbiologically contaminated furnish, BUSAN 52 is added to the system at a rate of 0.1 kg of BUSAN 52 per metric ton (0.2 lb. per short ton) of furnish to each beater or pulper.

BROKE AND SLUSH PULP TREATMENT: For uncoated broke, add 0.1 to 0.2 kg of BUSAN 52 per metric ton (0.2 to 0.4 lb. per short ton), and for coated broke add 0.3 kg of BUSAN 52 per metric ton (0.2 to 0.6 lb. per short ton). **Pulp Storage:** Pulp that may be held in storage for 8 hours to 1 week should be treated with 0.1 to 0.3 kg of BUSAN 52 per metric ton (0.2 to 1.0 lb. per short ton) of moisture-free pulp. The BUSAN 52 should be added in a manner that will ensure uniform distribution throughout the mass of pulp moving to storage. **Fresh Water:** For microbiologically contaminated fresh water BUSAN 52 may be used at concentrations of 1 to 4 parts per million for treatment periods of four hours out of each eight hours in the place of chlorine or other oxidants. BUSAN 52 should not be added to water used for drinking or bathing.

PRESERVATION OF PAPERMAKING CHEMICALS: BUSAN 52 can be used to inhibit the growth of bacteria that cause the microbiological degradation of papermaking chemicals. The required amount of BUSAN 52 should be added in such a manner as to ensure uniform distribution throughout the substrate to be protected. The table below shows the amounts of BUSAN 52 recommended for the preservation of various substrates; the pH shown is the maximum pH reached during processing and storage of the material. The concentrations are based on the total wet weight of slurry, emulsion, or solution to be protected as parts per million BUSAN 52 per million parts of substrate (weight/weight).

Recommended Concentration of BUSAN 52 for Preservation of Papermaking Chemicals

| Substrate | pH below 7 ppm | pH above 7 ppm |
|---------------------------------------|----------------|----------------|
| Animal glue solutions | 75-150 | 150 |
| Clay slurries, phosphate dispersed | 50-100 | 100 |
| Coating formulations, protein binders | 150-400 | 400 |
| Coating formulation, starch binders | 50-150 | 150 |
| Starch slurries, and solutions | 50-150 | 150 |

Note: BUSAN 52 is composed of substances that have been allowed for use in the manufacture of paper and paperboard under U.S. Food and Drug Administration Regulation 176.300.

BUSAN 52 is used to inhibit the growth of bacteria and fungi that cause the degradation of cellulosic solutions, such as hydroxyethyl cellulose solutions.

PROTECTIVE COLLOIDS: Enzymes resulting from the growth of certain fungi and bacteria in water-thinned cellulosic protective colloids such as hydroxyethyl cellulose solutions cause a loss in viscosity of these solutions. BUSAN 52 has demonstrated effectiveness in controlling this microbiological growth and thereby provides viscosity stability for the protective colloid. Concentrations of 0.05 to 0.2 percent of BUSAN 52 based on the total weight of the solution are suggested for preservation; the exact concentration to be used will depend on the particular system, amount of microorganism contamination, and the degree of protection desired.

WATER-BASED DRILLING, COMPLETION AND PACKER FLUIDS: BUSAN 52 is also used to inhibit the growth of fungi and bacteria in water-based drilling muds, completion fluids, packer fluids, and other water-based drilling fluids containing starch, gums, sugars, or other organic materials. For these purposes BUSAN 52 is added at concentrations of 0.05 to 0.2% by weight.

HIDES AND SKINS: Busan 52 is used to prevent bacterial decomposition of brine-cured hides and skins. Busan 52 should be used at a level of 0.01-0.05% (100-500 ppm) based upon the weight of green fleshed hides or skins and saturated brine solution. In raceway operations, Busan 52 can be added directly to the raceway during the addition of hides and operations paddles. In processor/mixer operations, Busan 52 should be added as dispersion in water. A satisfactory dispersion of 1 part Busan 52 plus 4 parts water can be added prepared by adding the Busan 52 to the water (as opposed to adding water to Busan 52) with agitation.

LEATHER MANUFACTURE: BUSAN 52 can be used to prevent bacterial decomposition of brine cured, wet salted, air-dried or green fleshed hides and skins in the soaking process. For this purpose, treatment levels of 0.01-0.075% (100-750 ppm) based on the total weight of hides/skins and process water (float) used. To preserve tannery glue solutions, BUSAN 52 can be added to the glue at rates of 100-250 ppm, based on the total weight of the glue solution.

Technical assistance in applying BUSAN 52 for microorganism control as described above is available upon request when a description of the problem is provided.