

1448-84

9/1/2011

1044

Mr. Dennis L. Barbee  
Associate Director, Regulatory Affairs  
Buchman Laboratories, Inc.  
1256 N. McLean Blvd.  
Memphis, TN 38108

SEP 1 - 2011

Subject: Busan 1014  
EPA Registration No.: 1448-84  
Amendment Date: July 26, 2011  
EPA Receipt Date: July 26, 2011

Dear Mr. Barbee:

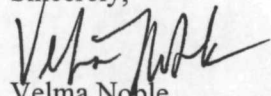
The following amendment, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

- Request to revise the container sizes.

**General Comments**

This letter supersedes the letter dated August 16, 2011. A stamped copy of the accepted labeling is enclosed. Submit one (1) copy of your final printed labeling before distributing or selling the product bearing the revised labeling.

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0199 or Velma Noble at (703) 308-6233.

Sincerely,  
  
Velma Noble  
Product Manager (31)  
Regulatory Management Branch I  
Antimicrobials Division (7510P)

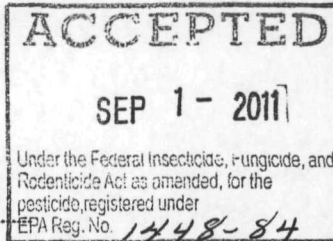
**CONCURRENCES**

SYMBOL	SURNAME	DATE					

2014

# BUSAN 1014

BUSAN is a registered trademark.



## Buckman

### ACTIVE INGREDIENT(S)

Oxydiethylenebis(alkyl<sup>+</sup>dimethylammonium chloride)  
(\*40% C12, 50% C14, 10% C16)

### INERT INGREDIENTS

TOTAL

(Contains Methanol)

36.0%  
64.0%  
100.0%

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER POISON**

### 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 use of gastric lavage. Measures against circulatory shock, respiratory depression, and convulsion may be needed.

## Precautionary Statements

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: Causes Irreversible Eye Damage. Methanol may cause blindness. Harmful or Fatal if Swallowed. Vapor Harmful. Avoid Breathing Spray Mist or Vapors. Avoid Contact with Skin. Corrosive. Causes irreversible eye damage and skin burns. May be fatal if inhaled. Harmful if swallowed or absorbed through the skin. Do not get in eyes, on skin, or on clothing. Wear goggles or faceshield, protective clothing, and rubber gloves. Do not breath vapor or spray mist. Wear a 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. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.**

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and birds. Do not apply in marine and/or estuarine oil fields. 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:** Flammable. Keep away from heat or open flame.

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### Directions for Use

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

BUSAN 1014 is used to inhibit the growth of both aerobic and anaerobic bacteria in industrial water systems. It is especially recommended for the control of sulfate-reducing bacteria in oil field injection water and disposal water. It is also recommended for the control of iron bacteria and other troublesome bacteria in oil field water as well as in petrochemical and other industrial water, including recirculating cooling water systems. BUSAN 1014 should be used only in industrial water systems where the effluent does not drain into lakes, streams, ponds, or public water supplies. This microbicide should not be used in domestic or potable water systems.

BUSAN 1014 is employed as a bactericide in industrial water systems at concentrations of 5 to 500 ppm (0.04 pint to 0.5 gallon per 1000 gallons), based on the volume of water treated. For continuous applications, it can be fed into systems directly from the shipping container by means of chemical-metering pumps. For slug treatments, it can be dispensed in suitable measuring containers. In most systems, slug dosing of BUSAN 1014 is the preferred means of treatment. A typically recommended slug treatment is 125 ppm (1 pint per 1000 gallons), based on the volume of water treated. However, required slug dosages may run as high as 500 ppm (0.5 gallon per 1000 gallons). Repeat dosages as required to establish and maintain control of bacterial growth. Where continuous application of bactericide is required, the system should first be treated with slug doses of Busan 1014 as described above until control is evident. Then continuous treatment with the bactericide should be begun at a rate of 5 to 50 ppm (0.04 to 0.4 pint per 1000 gallons), as needed to maintain control.

For more details on these uses, see the Buckman bulletin BUSAN 1014 - For the Control of Sulfate-Reducing and Other Bacteria in Industrial Water Systems.

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### 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. 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. 1448-84

Product Weight 7.7 lbs/gal 0.92 kg/L

Net contents are marked on the container.

**HMIS / NPCA Ratings**

Health 3 Flammability 3 Reactivity 1

**Last Revision**

11/11/2009