



11/12/2014  
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

1/3

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 12, 2014

Robert Rosenwasser  
Agent  
Water Science Technologies LLC  
5520 Parkview Circle  
Bessemer, AL 35022

Subject: Label Notification per PRN 98-10 – Label Changes Consistent with the Primary Supplier's Newest EPA Stamp Accepted Label.  
Product Name: K-BROM T  
EPA Registration Number: 88714-4  
Application Date: October 8, 2014  
Decision Number: October 9, 2014

Dear Mr. Rosenwasser

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Antimicrobials Division has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, you may contact Lorena Rivas at 703-305-5027 or via email at [rivas.lorena@epa.gov](mailto:rivas.lorena@epa.gov).

Sincerely,

for

Julie Chao, Acting Product Manager 34  
Regulatory Management Branch II  
Antimicrobials Division (7510P)  
Office of Pesticide Programs



**K:BROM®**

BROMO-CHLORO-DIMETHYLHYDANTOIN

A MICROBICIDAL BACTERICIDE, FUNGICIDE, ALGAECIDE AND SLIMICIDE. FOR TREATING INDUSTRIAL RECIRCULATING COOLING WATER AND ONCE-THROUGH COOLING WATER SYSTEMS, AIR CONDITIONER CONDENSATE, AND PULP & PAPER MILL WATER SYSTEMS FOR BACTERIAL SLIME (ONLY).

**ACTIVE INGREDIENT:**

Bromochloro-5,5-dimethylhydantoin 98%

**OTHER INGREDIENTS:** 2%

**TOTAL:** 100%

**KEEP OUT OF REACH OF CHILDREN  
DANGER**

**CORROSIVE AND STRONG OXIDIZER  
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 treatment advice.

**IF ON SKIN OR CLOTHING:** 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 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.

**IF SWALLOWED:** Call a 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.

See the product container or label with you when calling a poison control center or doctor, or going for treatment.

**NOTE TO PHYSICIAN:**

Probable mucosal damage may contraindicate the use of gastric lavage.

See side panels for additional precautionary statements.

MANUFACTURED FOR:

**WATER SCIENCE TECHNOLOGIES, INC.**  
5520 PARKWOOD CIRCLE  
BESSEMER, AL 35022  
866-284-9244

NOTIFICATION  
Date Reviewed: 01/24/14  
Reviewed By: [Signature]

EPA Reg. No. 88714-4

EPA Est. No. (Choose on PDF)

LOT#:

NET CONTENTS:

Transportation Emergency (Spill) Tel: 800-255-3924 CHEMTEL

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER**

**CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS. EYE CONTACT MAY CAUSE LOSS OF VISION. HARMFUL IF INHALED. IRRITATING TO NOSE AND THROAT. HARMFUL IF ABSORBED THROUGH SKIN OR SWALLOWED.**

Avoid breathing dust or spray mist. Do not get in eyes, on skin, or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wear goggles with side-shields, face shield, or safety glasses; protective clothing and chemical-resistant gloves. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before re-use.

**GENERAL PRECAUTIONS AND RESTRICTIONS: USE WITH ADEQUATE VENTILATION.** Do not smoke, drink, or eat when handling. Keep container tightly closed when not in use. Do not ship with foods, feeds, drugs, or clothing.

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish and aquatic organisms. Do not contaminate water by cleaning of equipment or disposal of waste. 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 OR CHEMICAL HAZARDS: STRONG OXIDIZING AGENT.** Do not mix with other chemicals. Mix with water only. Reaction with combustible organic materials, bases, moisture or with oxidizers may generate heat, hazardous gases and, possibly, fire or explosion. Do not add to dispensers or other equipment that is not dry and clean of any chemical remnants. Does not burn, but will decompose, from about 320°F (160°C), releasing toxic gases. Avoid comminution and dusting.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read the entire label and use strictly in accordance with precautionary statements and directions.

**INDUSTRIAL RECIRCULATING COOLING WATER SYSTEMS**

Used effectively at treatments to achieve exposures to one part per million (ppm) of active residual bromine to control algal, bacterial and fungal slimes in industrial cooling towers; influent water systems, e.g. flow-through filters, and lagoons, etc.; heat-exchange water systems; industrial water scrubbing systems; brewery and canning pasteurizers and industrial air-washing systems equipped with a mist eliminator.

**TREATMENT RATES: Initial treatment:** When noticeably fouled, add 2-6 lbs of this product per 10,000 gallons of water contained in the system. Repeat initial treatment until one ppm of active residual bromine is established for at least 4 hours. **Subsequent treatment:** When microbial control is evident, add 1-3 lbs of this product per 10,000 gallons of water contained in the system. Repeat as needed to maintain one ppm of active residual bromine for at least 4 hours.

**ONCE-THROUGH INDUSTRIAL COOLING WATER SYSTEMS**

Used for the control of algal, bacterial and fungal slimes, by adding to the system inlet, or before any other contaminated area in the system, in once-through and closed-cycle fresh and sea water cooling systems; cooling ponds; canals; and lagoons.

**TREATMENT RATES: Initial treatment:** When noticeably fouled, add 2-6 lbs of this product per 10,000 gallons of water contained in the system. Repeat initial treatment until one ppm of active residual bromine is established for at least 4 hours. **Subsequent treatment:** When microbial control is evident, add 1-3 lbs of this product per 10,000 gallons of water contained in the system. Repeat as needed to maintain one ppm of active residual bromine for at least 4 hours.

**ORNAMENTAL FOUNTAINS**

See treatment rates for industrial recirculating cooling water systems.

**AIR CONDITIONER CONDENSATE**

Place tablet in condensate line dispenser. Check once every six months or as required. The life of the tablet will vary depending upon atmospheric conditions and indoor air temperature requirements.

**PULP AND PAPER MILL WATER SYSTEMS**

This product is intended for use as a slimicide for the process water used in the manufacture of paper and paperboard products that do not contact food. Treat water at critical areas in the system process where mixing of the product with influent will be uniform. The frequency and duration of the treatment will depend upon the severity of the problem. Badly fouled process systems must be cleaned before initial treatment.

**TREATMENT BY SYSTEM VOLUME:** When a system is noticeably fouled: add 0.098-0.98 pounds (or 12-120 ppm) of this product to 1,000 gallons of water in the system. When biological control is evident: add 0.098-0.74 pounds (or 12-90 ppm) of this product to 1,000 gallons of water in the system.

**TREATMENT BY RESIDUAL METHOD:** Add sufficient product to maintain a measured residual up to 5 ppm as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 ppm as bromine.

An alternative method of calculating the appropriate level of this product is to estimate the paper mill's daily production, then add, over a 24-hour period, up to 588 grams (1.27 pounds) of this product per dry ton of paper produced over a 24-hour period. Test for bromine to verify the level of 5 ppm is not being exceeded.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in a dark, cool, below 86°F (30°C), dry, well-ventilated area, in well-closed original containers, away from energy sources, combustible organic materials, oxidizers, strong bases and moisture.

**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 the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or mix tank. 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 later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**SPILLS:** When handling or dealing with spills, use goggles with side-shields, or face shield; protective clothing, including chemical-resistant gloves and boots; use a dust respirator if dusting occurs. Sweep up dry spills and dispose of as described for pesticide disposal. If container contents are contaminated or decomposing, do not reseal container. Isolate unsealed container in the open or in a well-ventilated area; flood with large volumes of water if necessary.

**IN CASE OF FIRE:** Do not use ammonium phosphate extinguisher near water and this product. Hazardous reactions may occur.

**WARRANTY:** Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance under normal conditions of use, but to the extent consistent with applicable law, neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, expressed or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.