

8622-81

04-13-2010

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510-P)
1200 Pennsylvania Avenue N.W.
Washington, D.C. 20460

EPA Reg. Number: 8622-81

Date of Issuance: April 13, 2010

Term of Issuance:

Conditional

Name of Pesticide Product:

Stabilized Bromine Solution

NOTICE OF PESTICIDE:

x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

ICL-IP America, Inc.
95 MacCorkle Ave. S.W.
South Charleston, WV. 25303

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product (OPP Decision No. 417953) is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Change EPA File Symbol 8622-IR to EPA Registration Number 8622-81.
3. Under Oilfield Applications delete the word "as".
4. Submit one copy of the final printed label prior to releasing this product for sale.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Your release for shipment of the product constitutes acceptance of these conditions.

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

Signature of Approving Official:

Wanda Y. Henson (handwritten signature)

Wanda Y. Henson
Acting Product Manager 32
Antimicrobials Division (7510-P)

Date:

April 13, 2010

{All text in brackets [xxx] is optional and may or may not be included on a final label.}
{All text in braces {xxx} is administrative and will not appear on a final label.}

STABILIZED BROMINE SOLUTION

FOR USE AS A FUNGICIDE, ALGAECIDE, SLIMICIDE AND MICROBIOCIDE IN RECIRCULATING COOLING AND PROCESS WATER SYSTEMS, HEAT TRANSFER SYSTEMS, AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS, CONTAINERIZED PONDS AND DECORATIVE FOUNTAINS, INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS, PULP AND PAPER MILLS, WASTEWATER SYSTEMS, OILFIELD APPLICATIONS SUCH AS OIL RECOVERY WELL FLUIDS AND FRACTURING FLUIDS, SECONDARY OIL RECOVERY SYSTEMS, AND HYDROSTATIC TEST WATERS.

CONTROLS BIOFILM DEPOSITS FROM PUMPS, PIPEWORKS, HEAT EXCHANGERS, AND FILTERS ASSOCIATED WITH INDUSTRIAL WATER TREATMENT SYSTEMS AND OILFIELD SYSTEMS.

ACTIVE INGREDIENT:	
Sodium bromosulfamate.....	17.00%
OTHER INGREDIENTS:..... 83.00%	
TOTAL..... 100.00%	

KEEP OUT OF REACH OF CHILDREN
DANGER

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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 inhaled	<ul style="list-style-type: none"> • 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 on skin or clothing	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. YOU MAY ALSO CONTACT 1-304-746-3000 FOR EMERGENCY MEDICAL TREATMENT INFORMATION.	
NOTE TO PHYSICIAN	
"Probable mucosal damage may contraindicate the use of gastric lavage."	

ACCEPTED
WATER TREATMENT
INDUSTRIAL

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WATER TREATMENT
INDUSTRIAL

8622-81

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

DANGER. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles or face shield), clothing and rubber gloves. Harmful if swallowed, or absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public 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 into sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. Apply this pesticide only as specified on the label.

PHYSICAL AND CHEMICAL HAZARDS

STABILIZED BROMINE SOLUTION is not flammable. Avoid contact with strong oxidizers, acids, alkaloidal and heavy metal salts.

DIRECTIONS FOR USE

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

When used as directed, **STABILIZED BROMINE SOLUTION** effectively controls bacteria, fungi, algae and slime in commercial and industrial water systems. **STABILIZED BROMINE SOLUTION** can also be used to control biofilm deposits from pumps, pipe work, heat exchangers, and filters associated with industrial water treatment systems.

STABILIZED BROMINE SOLUTION may be added at system inlet water or other locations in the system at a point of uniform mixing where the treated water will be circulated or mixed throughout the system. Badly fouled systems must be cleaned before treatment begins. The product may be applied to the system either continuously or intermittently (slug dose) or as needed to obtain the recommended total bromine level. The frequency of feeding and dosage rate will depend upon the severity of the problem.

INITIAL DOSES: When the system is noticeably fouled, apply sufficient **STABILIZED BROMINE SOLUTION** to achieve a total bromine level of 4 – 10 ppm or as needed to maintain control. Applying 4 fluid ounces to 1000 gallons of water yields a maximum of 6.4 ppm of total bromine.

SUBSEQUENT DOSES: When microbial control is evident, apply sufficient **STABILIZED BROMINE SOLUTION** to achieve a total bromine level of 4 – 10 ppm or as needed to maintain control.

Treatment levels of **STABILIZED BROMINE SOLUTION** can best be measured with test kits for either bromine or chlorine. Tests must be made immediately after drawing water samples from the system. Use test kits according to directions. When a bromine test kit is used, results can be read directly as ppm bromine. When a chlorine test kit is used, results can be expressed in terms of bromine by multiplying chlorine values by the conversion factor 2.25.

RECIRCULATING COOLING AND PROCESS WATER SYSTEMS

When used as directed, **STABILIZED BROMINE SOLUTION** effectively controls bacteria, fungi, algae and slime in commercial and industrial cooling towers; heat exchange water towers; evaporative

*with chlorine
total bromine level*

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condensers, utility plant cooling systems, industrial water scrubbing systems, and influent systems such as flow through filters, lagoons, etc.

HEAT TRANSFER SYSTEMS

For control of bacteria and fungi in heat transfer systems, such as hydrostatic sterilizers and retorts, pasteurizers and warmers, and batch and continuous cookers.

AIR WASHERS AND INDUSTRIAL SCRUBBING SYSTEMS

Use only in industrial air washer systems that have mist-eliminating components. For control of microorganisms in industrial air washer or scrubbing systems, add sufficient STABILIZED BROMINE SOLUTION to the air washer or sump or chill water. The STABILIZED BROMINE SOLUTION must be applied to achieve a total bromine level of 4 – 10 ppm or as needed to maintain control. Sample of the treated systems must be at the bleed-off point and total bromine residuals determined with an appropriate test kit.

CONTAINERIZED PONDS AND DECORATIVE FOUNTAINS

STABILIZED BROMINE SOLUTION may be applied at the pond or fountain inlet or at a location that permits complete diffusion into the water at maximum retention time before reaching the outlet. Sufficient STABILIZED BROMINE SOLUTION must be fed to maintain a total bromine level of 4 – 10 ppm in all parts of the pond or fountain, or as needed to maintain control.

INDUSTRIAL ONCE-THROUGH COOLING WATER SYSTEMS

When used as directed, STABILIZED BROMINE SOLUTION effectively controls bacteria, fungi, algae and slime in once-through and closed-cycle fresh and sea water cooling systems. Apply STABILIZED BROMINE SOLUTION to the system inlet water or before any other contaminated area in the system.

PULP AND PAPER MILLS

When used as directed, STABILIZED BROMINE SOLUTION effectively controls algal, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, non-potable water systems, whitewater systems and other process water. The product may be applied to the system either continuously or intermittently (slug dose) or as needed to obtain the recommended total bromine level.

Advisory Statement: The product cannot be used in paper mills and pulp manufacturing sites where food packaging materials are produced.

DOSAGE RATES: Add sufficient STABILIZED BROMINE SOLUTION to achieve a residual bromine level of 4 – 10 ppm or as needed to maintain control of the system.

Feed STABILIZED BROMINE SOLUTION directly into the water to be treated. Be sure rapid mixing of the treated water, and STABILIZED BROMINE SOLUTION is achieved. Pump manufacturers can recommend the appropriate materials of construction and capacity for a pump to feed STABILIZED BROMINE SOLUTION.

WASTEWATER SYSTEMS

When used as directed, STABILIZED BROMINE SOLUTION controls microorganisms in wastewater systems. The quantity of STABILIZED BROMINE SOLUTION required varies with the degrees of fouling. Add sufficient STABILIZED BROMINE SOLUTION to achieve residual bromine levels of 3 – 10 ppm, or as needed to maintain control, when measured approximately 5 minutes after treatment. Applying 4 fluid ounces to 1000 gallons of water yields a maximum of 6.4 ppm of total bromine. Higher dosages may be necessary depending upon the systems. The product may be applied to the system either continuously or intermittently (slug dose) or as needed to obtain the recommended total bromine level.

Depending on the construction of the wastewater system, STABILIZED BROMINE SOLUTION may be effectively added to one or more different locations in the system. Frequently the compound is added to wastewater receiving secondary treatment at a contact tank preceding the effluent discharge or at the influent of the final clarifier.

ACCEPTED
WITH COMMENTS
in EPA Label Manual:

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Office of the Federal Inspector,
Environmental Protection Agency
Washington, DC 20460
Telephone: 202-566-0100

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OILFIELD APPLICATIONS

This product is ~~an~~ an algaecide, fungicide, and/or slimicide for oilfield applications. It controls biofilm deposits on pumps, pipe work, heat exchangers, and filters associated with oilfield systems. It also controls biofilm deposits down hole in formations.

OIL RECOVERY WELL FLUIDS AND FRACTURING FLUIDS

When used as directed, this product will control the growth of bacteria such as anaerobic sulfate-forming bacteria (*Desulfovibrio desulfuricans*) and aerobic slime-forming bacteria (*Pseudomonas fluorescens* and *Bacillus cereus*) which impair the efficiency of well fluids and fracturing fluids.

Add sufficient amount of this product directly to the well fluid or fracturing fluid to achieve a residual bromine level of up to 10 ppm or as needed to maintain control of the system. This product may be added and premixed with the well fluid or fracturing fluid prior to the oilfield operation or may be added directly to the blender during the operation. Be sure rapid mixing of the treated water with this product is achieved.

SECONDARY OIL RECOVERY SYSTEMS

This product may be used in secondary oil recovery water systems, such as oil field water flood or salt water disposal systems for the control of sulfate-reducing bacteria and aerobic slime-forming bacteria, which impair the efficiency of the system.

Add sufficient amount of this product to achieve a residual bromine level of up to 10 ppm or as needed to maintain control of the system. This product can be added whenever needed to maintain 10 ppm residual bromine. Feed this product directly into the water to be treated. Be sure mixing of the treated water with this product is achieved.

HYDROSTATIC TEST WATERS

This product may be used in hydrostatic test water systems for the control of sulfate-reducing bacteria and aerobic slime-forming bacteria, which impair the efficiency of the system and damage pipe work by microbial induced corrosion.

Add sufficient amount of this product to achieve a residual bromine level of up to 10 ppm or as needed to maintain control of the system. This product can be added whenever needed to maintain 10 ppm residual bromine. Feed this product directly into the water to be treated. Be sure mixing of the treated water with this product is achieved.

STORAGE AND DISPOSAL

STORAGE: Do not contaminate water, food, or feed by storage, disposal or cleaning of equipment.
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: Non-refillable 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 the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll 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 rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Manufactured for:
ICL-IP AMERICA, Inc.
95 MACCORKLE AVE., SW
SOUTH CHARLESTON, WV 25303

EPA REG. NO. 8622-IR
EPA EST. NO. _____
NET CONTENTS: _____

ACCEPTED
with COMMENTS
in EPA Letter dated:

APR 13 2010

Under the Federal Insecticide,
Fungicide, and Rodenticide Act as
amended, for the pesticide,
registered under Est. Reg. No. 8622-81