



# WCS 650

ITEM CODE: **84263**  
Net Weight: 55 lb/25 kg

For use as a fungicide, algicide, slimicide and microbiocide in recirculating cooling and process water systems, heat transfer systems, air washers and industrial scrubbing systems, decorative fountains, industrial once-through cooling water systems, pulp and paper mills, and wastewater systems

Controls biofilm deposits from pumps, pipework, heat exchangers, and filters associated with industrial water treatment systems.

#### ACTIVE INGREDIENTS:

Sodium bromosulfamate and sodium chlorosulfamate .....18%

OTHER INGREDIENTS: .....82%

TOTAL: .....100%

Total Halogen (calculated as bromine = approximately 15%)  
(calculated as chlorine = approximately 7%)

**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 to 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

WCS 650 is not flammable. This product is strongly basic and an oxidizing agent. Avoid contact with organic materials such as alcohols and aldehydes, strong reducing agents, strong oxidizers, acids, and ammonia containing products. Avoid contact with common metals such as steel, aluminum, iron and copper. Use of incompatible materials can promote the exothermic decomposition of the product. In extreme cases, this could result in vigorous gas formation and over-pressurization of storage containers.

#### 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, WCS 650 effectively controls bacteria, fungi, algae and slime in commercial and industrial water systems. WCS 650 can be also used to control biofilm deposits from pumps, pipework, heat exchangers, and filters associated with industrial water treatment systems.

WCS 650 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 should 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 WCS 650 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 WCS 650 to achieve a total bromine level of 4-10 ppm or as needed to maintain control.

Treatment levels of WCS 650 can best be measured with test kits for either bromine or chlorine. Tests should 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, WCS 650 effectively controls bacteria, fungi, algae and slime in commercial and industrial cooling towers; heat exchange water towers, evaporative 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 WCS 650 to

the air washer sump or chill water. The WCS 650 should be applied to achieve a total bromine level of 4-10 ppm or as needed to maintain control. Sampling of the treated systems should be at the bleed off point and total bromine residuals determined with an appropriate test kit.

**Not for use in air washers and industrial scrubbing systems in the State of California.**

#### CONTAINERIZED PONDS AND DECORATIVE FOUNTAINS

WCS 650 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 WCS 650 should 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, WCS 650 effectively controls bacteria, fungi, algae and slime in once-through and closed-cycle fresh and sea water cooling systems. Apply WCS 650 to the system inlet water or before any other contaminated area in the system.

**Not for use in industrial once-through cooling water systems in the State of California.**

#### PULP AND PAPER MILLS

When used as directed, WCS 650 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, nonpotable 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.

**DOSAGE RATES:** Add sufficient WCS 650 to achieve a residual bromine level of 4-10 ppm or as needed to maintain control of the system.

Feed WCS 650 directly into the water to be treated. Be sure rapid mixing of the treated water, and WCS 650 is achieved. Pump manufacturers can recommend the appropriate materials of construction and capacity for a pump to feed WCS 650.

**Not for use in pulp and paper mills in the State of California.**

#### WASTEWATER SYSTEMS

When used as directed, WCS 650 controls microorganisms in wastewater. The quantity of WCS 650 required varies with the degree of fouling. Add sufficient WCS 650 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 system. 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, WCS 650 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.

**Not for use in wastewater in the State of California.**

#### STORAGE AND DISPOSAL:

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

**STORAGE:** Avoid freezing, excessive heat or exposure to light, especially direct sunlight. If heating is necessary to prevent freezing, care must be taken to prevent overheating. The average product temperature should be maintained below 110° F. Temperature monitoring is recommended. At elevated temperatures, self-heating can lead to vigorous gas generation and over-pressurization of storage containers.

**STORAGE CONTAINER:** Vented and opaque containers: This product should be stored in vented containers as pressure can build-up in the headspace (nitrogen). To maximize product shelf life, store in opaque containers in a cool, dry, well-ventilated area.

**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 DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Offer for reconditioning if appropriate. Triple rinse as follows: Empty remaining contents from this container 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.



**DISC.**

**LICENSED**

PERIOD 2014-2016 LIC. NO. 9203.405

## KEEP OUT OF REACH OF CHILDREN DANGER/PELIGRO

### FIRST AID

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

**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 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

#### FOR EMERGENCY MEDICAL INFORMATION IN USA OR CANADA,

CALL: 1-800-328-0026.

#### FOR EMERGENCY MEDICAL INFORMATION WORLDWIDE,

CALL: 1-651-222-5352 (IN THE USA).

## 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), protective clothing and rubber gloves resistant to chemical permeation. Harmful if swallowed, or absorbed through the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing separately before reuse.

Not for Canada

Distributed by

Ecolab Inc.

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EPA Reg. No. 3377-55-1677

EPA Est. 56485-PA-1

RATINGS: 0 - Minimum 1 - Slight 2 - Significant 3 - Serious 4 - Extreme				Personal protection equipment	
<b>3</b>	<b>HEALTH</b>	<b>0</b>	<b>FIRE</b>	<b>0</b>	<b>REACTIVE</b>
Contains: sodium bromosulfamate and sodium chlorosulfamate, proprietary.					