CHEMTREAT C-2189T
For use as a Disinfector, Bactericide, Fungicide, Algaecide, and for Control of Microbial Slimes in Industrial Processes and Water Systems such as: Recirculating Cooling Water Systems, Once-Through Cooling Water Systems, Wastewater Treatment Systems, Brewery Pasteurizers, Air Conditioners, Dehumidifiers, Evaporative Coolers, Paper and Paperboard Process Water, and Water Fountains/Reflecting Ponds.

ACTIVE INGREDIENT: 1-Benzyl-3-chloro-5,5-dimethylhydantoin ................................. 96.0% OTHER INGREDIENTS ......................................................... 4.0% TOTAL ............................................................. 100.0% KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

IF IN EYES

- Hold eye open and rinse gently and slowly with water for 15 - 20 minutes.
- Remove contact lenses, if present, after 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 mouth-to-mouth, if possible.
- 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.

IN CASE OF MEDICAL EMERGENCY, CALL: 1-800-222-1222

NOTE TO PHYSICIAN: Possibly cause liver damage, kidney damage, liver damage, or cause the loss of some vitamin levels.

EPA REG. NO. 38345-4-15390
EPA. EST. NO. 518-M0-01
518-GA-01

NET WEIGHT 50 LBS.
Manufactured for:
ChemTreat, Inc.
10040 Lickinghole Road, Ashland, Virginia 23005
(804) 935-2000

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS
DANGER: Corrosive. Causes irreversible eye damage or skin burns. Harmful if swallowed. Irritating to nose and throat. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wear protective clothing and rubber gloves when handling this product. Avoid breathing dust and fumes. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Do not mix with other chemicals. Mix only with water. Use dry, clean, unopened. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, hazardous gas, possible fire and explosion. In case of contamination or decomposition, do not refeed container. If possible, isolate container in open air or well-ventilated area. Flood area with large volumes of water.

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 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.

DIRECTIONS FOR USE

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

RECAPITULATING COOLING WATER SYSTEMS: When used as directed, this product effectively controls algae, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, industrial water systems such as flow through filters, cooling ponds, canal and lagoons, heat exchange water systems; industrial water recirculating systems; brewery pasteurizers; and industrial air washing systems equipped with a mist eliminator.

ONCE-THROUGH COOLING WATER SYSTEMS: When used as directed, this product effectively controls algae, bacterial, and fungal slimes in commercial and industrial cooling towers, evaporative condensers, industrial water systems such as flow through filters, cooling ponds, canal and lagoons. Treat cooling water with this product as the system intake or other critical areas, where mixing is uniform.

EVAPORATIVE COOLER: When used as directed, this product effectively controls algae, bacterial, and fungal slimes in evaporative coolers.

PASTEURIZER, CAN WARMER, CANNERY, RETORT WATER SYSTEMS: When used as directed, this product controls algae, bacterial, and fungal slimes in canning equipment, pasteurizers, canneries, canning line conveyor systems, canning package warms, canning pasteurizer water, and retort water.

DOSEAGE DIRECTIONS

Initiate Dose: When noticeably foamed, add 0.2 to 0.6 lbs/1000 gallons (0.24 to 0.72 kg/10,000 L) of water contained in the system. At initial dose 1 to 5 parts per million (milligrams per liter) bromine residual is established for at least 4 hours.

Subsequent Doses: When microbial control is evident, add 0.1 to 0.3 lbs/1000 gallons (0.12 to 0.36 kg/10,000 L) of water contained in the system. Repeat as needed to maintain a 1 to 3 parts per million (milligrams per liter) bromine residual for at least 4 hours.

COMMERCIAL AIR CONDITIONER AND DEHUMIDIFIER BASINS OR DRY PANS: When used as directed, this product effectively controls algae, bacterial, and fungal slimes and offers rapid disinfection of primary, secondary and tertiary wastewater treatment systems.

DOSEAGE DIRECTIONS: Add 0.1 to 0.6 lbs/1000 gallons (0.12 to 0.72 kg/10,000 L) of water treated to maintain a 0.5 to 5 parts per million (milligrams per liter) bromine residual at the injection point in the disinfection contact chamber. Adjust this product’s dosage to achieve disinfection and maintain the halogen concentration at the end of the contact chamber. Do not use treated wastewater to irrigate crops.

PULP AND PAPER MILLS: When used as directed this product effectively controls algae, bacterial, and fungal slime in pulp and paper mill fresh and sea water influent water systems, cooling water systems, wastewater treatment systems, service water systems, water systems, water treatment systems, and other water systems where mixing with the product will be entrained with unwashed. The frequency and duration of the treatment will depend upon the severity of the problem. Bodily flawed process systems must be cleaned before initial treatment.

Product Application:

Treatment by System Volume: When a system is noticeably foamed, add 0.1 to 1.0 lbs of this product to 1,000 gallons of 12 to 120 parts per million (milligrams per liter) of water in the system.

When biological control is evident: add 0.1 to 0.75 lbs of this product to 1,000 gallons or 12 to 90 parts per million (milligrams per liter) of water in the system.

Treatment by Residual Method: Add sufficient amount of this product to maintain a measured residual up to 7 parts per million (milligrams per liter) as bromine. Once biological control is evident, the use of this product normally can be reduced to something less than 1 part per million as bromine.

To calculate the appropriate level of this product, estimate the palm mill’s daily production, then add, over a 24-hour period, up to 1,000 parts (2.2 pounds) of this product per dry metric ton of dry fiber. Test for bromine to verify the level of 5 parts per million (milligrams per liter) is not being exceeded.

WATER FOUNTAINS/REFLECTING PONDS: This product, when used as directed, is effective as a water floater sanitizer and disinfectant.

DOSEAGE DIRECTIONS: Ensure all equipment is working properly. Backwash the filter system (if present) following manufacturer’s directions. Adjust pH to between 7.2 - 7.6. When using other products as outlined in directions for this product, always follow directions on those products.

A bromine or chlorine residual of 1 - 2 ppm must first be established in the water. If the residual is established with this product in a brominizer, use the brominizer at the highest feed rate following manufacturer’s recommendations. When the bromine residual reaches 1 - 2 ppm, adjust the feeders accordingly. To maintain bromine residual, adjust the bromination feed rate to assure a constant treatment level of 1 - 3 ppm. Regular use of a test kit is necessary to maintain bromine residual in the water.

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE: Keep product dry and store in a cool dry well-ventilated area away from heat or open flame. Store in original container.

PESTICIDE DISPOSAL: Pesticide wastes are adversely hazardous. Improper disposal of excess pesticide, spray mixture, or waste is a violation of Federal Law. If these wastes cannot be disposed of by use according to labeled instructions, contact your State Pesticide or Environmental Control Agency, or the Nonionic Waste representative at the nearest EPA Regional office for guidance.

CONTAINER DISPOSAL: 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 is full with water and recap. Shake for 10 seconds. Pour contents into application equipment or a mix tank or store reuse for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

EMERGENCY HANDLING: In case of contamination or decomposition, do not recall container. If possible, isolate container in open and well-ventilated area. Flood with large volumes of water. Dispose of contaminated material in an approved landfill area.

Treatment levels can 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.

1. When a bromine test is used, results can be read directly as parts per million (milligrams per liter) bromine.
2. 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.

NOTE: Buyer assumes all responsibility for safety and use not in accordance with directions.