B-Cap™ 27 Antimicrobial Agent

For Industrial Use Only – Not for human consumption or household use

EPA Registration No. 72372-4
EPA Est. No. 65402-TX -001
60156-IL -001

B-Cap™ 27 Antimicrobial Agent is for biofouling and slime control in:

- Pulp and paper mill systems
- Recirculating and once through cooling water systems
- Pasteurizer cooling water systems
- Process Waters
- Biocidal Control in Packaging and Storage Vessels

Active Ingredients: Hydrogen Peroxide ................ 27%
Inert Ingredients: ............................................... 73%
Total ............................................. 100%

KEEP OUT OF REACH OF CHILDREN

DANGER

Precautionary Statements
Hazards to Humans and Domestic Animals

DANGER

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 or on skin or clothing. Do not breathe (dust, vapor or spray mist). 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 reuse. Wear coveralls over long sleeved shirt and long pants, socks, chemical resistant footwear and chemical resistant gloves. Wear appropriate protective eyewear. 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).

Physical or Chemical Hazards

Strong oxidizing agent. Mix only with water. B-Cap™ 27 Antimicrobial Agent is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate or promote combustion of other materials.

Environmental Hazards

This pesticide is toxic to birds, mammals, fish and aquatic invertebrates. 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. Any solution released from the system should be diluted with water and tested for residuals to ensure that there is less than 3 ppm peroxygen remaining.

First Aid

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

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

If on skin • Take off contaminated clothing.
  • Rinse skin immediately with plenty of water for 15-20 minutes.
  • Call a poison control center or doctor for further 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 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.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

FMC Corporation
Peroxygens Division
1735 Market Street
Philadelphia Pennsylvania 19103

Net Contents: 55 Gallons 500 Pounds

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Storage and Disposal

Storage

NEVER RETURN B-CAP™ 27 ANTIMICROBIAL AGENT TO THE ORIGINAL CONTAINER AFTER IT HAS BEEN REMOVED. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of decomposition, isolate container, douse container with cool water and dilute B-CAP™ 27 Antimicrobial Agent with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Keep container out of direct sunlight. To maintain product quality, store at temperatures below 86°F. Do not store on wooden pallets.

Procedure for Leak or Spill

Stop leak if this can be done without risk. Shut off ignition sources; no flames, smoking, fires, or spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Undiluted material should not enter confined spaces.

Disposal

Pesticide Disposal

If material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by discharge into suitable treatment system in accordance with all local, state, and Federal environmental laws, rules, regulations, standards, and other requirements. Because acceptable methods of disposal may vary by location, regulatory agencies should be contacted prior to disposal.

B-CAP™ 27 Antimicrobial Agent which is to be discarded should be disposed of as hazardous waste after contacting the appropriate local, state, or Federal agency to determine proper procedures.

Empty drums are not returnable to FMC unless special arrangements have been made. Triple rinse drums with water. Dispose of drums in accordance with local, state, and Federal regulations. DO NOT REUSE.

Directions for Use

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

B-CAP™ 27 Antimicrobial Agent

A microbicide for use in controlling slime and sulfate forming bacteria in process waters, air washing systems, recirculating and once through water cooling towers and systems such as holding ponds and lagoons, including pasteurizer cooling water systems and industrial closed recirculating process water systems and packaging and storage vessels.

Air Washers and Recirculating and Once-Through Cooling Water Systems, (cooling towers, evaporative condensers).

1. Severely fouled systems should be cleaned prior to treatment.
2. This product may be used in all types of cooling water systems that have mist-eliminating components. B-CAP™ 27 Antimicrobial Agent should be added at a point where uniform mixing can be achieved, for example, in the basin area. Addition may be intermittent or continuous. Hydrogen peroxide should not be mixed with other chemicals or additives without first checking for compatibility. Contamination with other chemicals could cause product decomposition.
   - Intermittent (Slug Dose) – For severely fouled systems add 4 to 215 fl oz of B-CAP™ 27 Antimicrobial Agent per 1000 gallons of water in the system, (10 to 500 ppm). Repeat until control is achieved. When control is evident, add 1 to 31 fl oz of B-CAP™ 27 Antimicrobial Agent per 1000 gallons of water in system (3 to 100 ppm) as needed to maintain control.
   - Continuous Feed – Initial Dose: If the system is noticeably fouled, use slug dose procedure for the initial treatment. Once control is achieved, continuous feed of 0.4 to 21.5 fl oz B-CAP™ 27 Antimicrobial Agent per 1000 gallons of water per day in the system (1 to 50 ppm). Dosage rates should be adjusted depending on the extent of biofouling and control achieved.

Pasteurizer Cooling Water Systems

B-CAP™ 27 Antimicrobial Agent may be used for control of slime, bacteria, fungi, and other microorganisms in brewery and other pasteurizer systems and warmers at the same application rates and in the same manner as described above. The solution should be added to the closed recirculating system at a point where uniform mixing can be achieved, e.g., basin, sump, or collection areas.

Biofouling Control in Pulp and Paper Mill Systems

For use in the manufacture of paper and paperboard intended for non-food contact only. Not for use in the manufacture of paper and paperboard intended for food contact. This product may be used to control bacterial, fungal and yeast growth in pulp, paper and paperboard mills.

1. Severely fouled systems should be cleaned prior to treatment with B-CAP™ 27 Antimicrobial Agent. Add B-CAP™ 27 Antimicrobial Agent directly to the system; don’t mix with other chemicals or additives without first testing for compatibility. Contamination with other chemicals could result in product decomposition.
2. Add B-CAP™ 27 Antimicrobial Agent at a point in the system where it can be mixed uniformly with the pulp, e.g., the beater, hydropulper, fan pump, broke pump, etc.
3. Apply 1 to 52 fl oz. of B-CAP™ 27 Antimicrobial Agent per ton of pulp (dry basis) or paper produced, (10 to 500 ppm). Addition may be continuous or intermittent depending on the type of system and severity of the biofouling.

Process Water

B-CAP™ 27 Antimicrobial Agent may be used to aid in minimizing slime formation in process waters intended for use in precleaning hard non-porous surfaces, e.g., metals, glass or plastics prior to being painted, plated, or coated; cleaning pipes, equipment or other process equipment.

1. Add B-CAP™ 27 Antimicrobial Agent at a point in the system where it can be mixed uniformly. The quantity of product required will depend upon the severity of the fouling.
2. Apply 0.4 to 215 fl oz per 1000 gallons of water in the system, (1 to 500 ppm). Once control is achieved, reduce application rate accordingly.

Control of Slime, Bacteria, Fungi, and other Microorganisms in packaging and storage vessels such as railcars, trucks, ships, totes, IBC’s tanks, etc. used to contain clays, calcium carbonate, titanium dioxide, barium sulfate, and other filler materials.

1. If treating the container or vessel in the field, place the vessel or container on an area with an impervious surface with controlled runoff. Ensure that the antimicrobial treatment solution will not be released to the environment.
2. Remove gross contamination with a cleaner or other suitable detergent and rinse with water.
3. Prepare a dilute solution of the product by adding 1 to 4 volumes of B-CAP™ 27 Antimicrobial Agent to 11 volumes of potable water. This will provide solutions containing 3% to 10% hydrogen peroxide. Apply the diluted solution, at ambient or elevated temperatures, to the surface of the material and fungal contamination.
4. Allow antimicrobial agent to contact the surface for a period of time sufficient to ensure adequate cleaning. Depending on microbial load, contact times can range from 5 to 30 minutes or longer.
5. Drain dry. Do not rinse.

In all applications, always prepare a new solution daily to ensure effectiveness. Do not reuse solutions. Dispose of any unused solution.

EMERGENCY TELEPHONE NUMBERS (24 HOURS)

MEDICAL: COLLECT 303-595-9048
TRANSPORTATION: 800-424-9300
OTHER: 281-474-8750

For more information see Material Safety Data Sheet

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