

PM 33

72152-1

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BioSide™ HS 5% (Peroxyacetic Acid Solution)

BioSide™ HS 5% is a peroxyacetic acid-based solution developed for the following uses:

Institutional/Industrial
Sanitizing of Previously
Cleaned Non-Porous Food
Contact Surfaces in:

Dairies
Wineries
Breweries
Food and Beverage
Plants
Disinfecting Poultry
Premises
Poultry Hatcheries
Animal Housing Facilities

Hard Surface Disinfection in:

Hospitals
Health Care Facilities
Schools
Colleges
Veterinary Clinics
Animal Life Science
Laboratories
Industrial Facilities
Office Buildings
Recreational Facilities
Retail and Wholesale
Establishments

Bacteria, Fungi, and Slime
Control in:

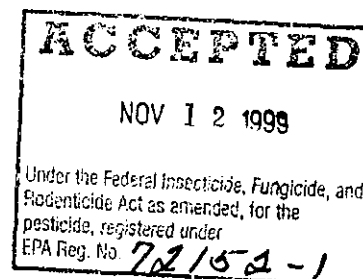
Pulp and Paper Mill
Systems
Cooling Water Systems

Dispersed Pigments

Active Ingredients:

Peroxyacetic Acid 4.9%
Hydrogen Peroxide 26.5%

Inert Ingredients: 68.6%
Total: 100%



EPA Registration No. 72152-1

Before Using This Product, Please Read This Entire Label Carefully

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Hold eyes open and flush with a steady, gentle stream of water for 5 minutes. Get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention.

If swallowed: Call a doctor or get medical attention. Do not induce vomiting or give anything by mouth to an unconscious person. Drink promptly a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol.

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

Manufactured By :
Kleenbak Corporation
PO Box 446
Allendale, New Jersey 07401-446

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER. CORROSIVE. Do not enter an enclosed area without proper respiratory protection. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breath vapors of spray mist. Do not get in eyes, on skin, or on clothing. Direct contact with product can cause irreversible damage to eyes. Wear goggles and face shield and rubber gloves when handling. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

Physical or Chemical Hazards

Strong oxidizing agent. Corrosive. Mix only with water. Product must be diluted in accordance with label directions prior to use. BioSide™ HS 5% is not combustible; however, at temperatures exceeding 156°F, decomposition occurs releasing oxygen. The oxygen released could initiate combustion.

Environmental Hazards

This pesticide is toxic to birds, fish and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of the National Pollution Discharge System (NPDES) permit and the permitting has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage 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.

SANITIZATION

BioSide™ HS 5% peroxyacetic acid sanitizer is recommended for use on precleaned surfaces such as equipment, pipelines, tanks, vats, filters, evaporators, pasteurizers, and aseptic equipment in dairies, brewers, wineries, beverage and food processing/packing plants, egg processing/packing equipment surfaces, and eating establishments. This product is effective as a sanitizer when solution is prepared in water of up to 400 ppm hardness as CaCO₃. This product has demonstrated greater than 99.999% reduction of survivors after 30 seconds exposure period in the AOCA Germicidal and Detergent Sanitizing Action of Disinfectants study.

Sanitizing Food Contact Surfaces

Effective against Staphylococcus aureus and Escherichia coli.

Prior to sanitizing, remove gross good particles, then wash with a detergent solution, followed by a potable water rinse. Sanitize with a concentration of 1.0 ounces BioSide™ HS 5% dissolved in 5 gallons of water (0.16% v/v concentration). At this dilution BioSide™ HS 5% is effective against Staphylococcus aureus and Escherichia coli. Use immersion, coarse spray or circulation techniques as appropriate to the equipment. All surfaces should be exposed to sanitizing solution for a period of at least 60 seconds or more if specified by a governing code. Drain thoroughly and allow to air dry. Do not rinse.

ACCEPTED

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Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide, registered under EPA Reg. No. 7216-2-1

ACCEPTED

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and when necessary, a presoak treatment.
 Rodenticide Act as amended, for the
 pesticide, registered under
 EPA Reg. No. 72152-1

Sanitizing Eating, Drinking and Food Prep Utensils

Remove gross food particles by a prescrape, a preflush and when necessary, a presoak treatment. Wash with a recommended detergent.

Rinse with clean water.

Sanitize in a solution of 1.0 ounces BioSide™ HS 5% dissolved in 5 gallons of water. Immerse all utensils for at least 60 seconds or contact time specified by a governing sanitary code. Drain and air dry.

Sanitizing Tableware

For sanitizing tableware in low temperature warewashing machines, inject BioSide™ HS 15% into the final rinse water at a concentration of 1.0 ounces BioSide™ HS 5% dissolved in 5 gallons of water. Do not exceed 0.16 % v/v. Air dry.

To insure that BioSide™ HS 5% sanitizer concentration does not fall below 0.1%, periodically test the rinse solution with a suitable test kit and adjust the dispensing rate accordingly. Consult your technical service representative for assistance and further information on sanitizing tableware in warewashing machines.

Final Sanitizing Bottle Rinse

BioSide™ HS 5% may be used as a final sanitizer rinse for returnable and non-returnable bottles at a 0.16% dilution (1.0 ounces BioSide™ HS 5% dissolved in 5 gallons of water).

NOTE: FOR MECHANICAL OPERATIONS prepared use solution may not be reused for sanitizing but may be reused for other purposes such as cleaning.

FOR MANUAL OPERATIONS fresh sanitizing solutions should be prepared daily or more often if the solution becomes diluted or soiled.

HARD SURFACE DISINFECTION

BioSide™ HS 5% disinfects as it cleans in one operation. BioSide™ HS 5% can be used to disinfect floors, walls and other hard nonporous surfaces such as tables, chairs, countertops, bathroom fixtures, sinks, bed frames, shelves, racks, carts, refrigerators, coolers, tile, linoleum, vinyl, asphalt, porcelain, plastic (such as polypropylene and polyethylene), stainless steel, or glass.

Areas of use in hospitals use BioSide™ HS 5% for surgical and obstetrical suites; housekeeping services; physical therapy departments; nursing services; autopsy facilities. Also use BioSide™ HS 5% in nursing homes, other health-care facilities, schools, colleges, veterinary clinics, animal life science laboratories, industrial facilities, dietary areas, office buildings, recreational facilities, retail and wholesale establishments.

Combination Disinfection and Cleaning

BioSide™ HS 5% is effective against *Staphylococcus aureus*, *Salmonella choleraesuis*, *Pseudomonas aeruginosa*, and *Trichophyton mentagrophytes* and *Escherichia coli* 0157:H7 at 0.23% (1.5 oz./5 gal.) in hard water (400 ppm as CaCO_3) and 5% fetal bovine serum on hard nonporous surfaces. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, or coarse spray device, or by soaking so as to wet all surfaces thoroughly. Apply solution with a mop, cloth, sponge, brush, etc... or by soaking so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove solution and entrapped soil with a clean wet mop, cloth, or wet vacuum pickup. Prepare a fresh solution daily or when it becomes soiled or diluted.

BioSide™ HS 5% is designed for use in animal hospitals, animal laboratories, kennels, pet shops, zoos, pet animal quarters, poultry premises, poultry hatcheries, and livestock quarters. When used as directed, BioSide™ HS 5% is specifically designed to disinfect, deodorize and clean inanimate, hard, surfaces such as walls, floors, sink tops, furniture, operating tables, kennel runs, cages and feeding and watering equipment. In addition BioSide™ HS 5% will deodorize those areas which are generally hard to keep smelling fresh, such as garbage storage areas, empty garbage bins and cans, and any other areas which are prone to odors caused by microorganisms.

All treated equipment that will contact food, feed, or drinking water must be rinsed with potable water before reuse.

For heavily soiled areas, a pre-cleaning step is required. Prepare a fresh solution for each use.

BIOFOULING CONTROL IN PULP AND PAPER MILL SYSTEMS

For use in the manufacture of paper and paperboard intended for non-food contact. BioSide™ HS 5% can be used to control bacteria, fungi, and fresh water organisms in paper, paperboard or non-woven process water and influent water systems. Suitable dosing points include but are not limited to: stock chests, pulpers, the white water loop and white water storage systems and influent water streams.

Influent Water Systems:

BioSide™ HS 5% should be fed continuously to incoming fresh water streams (nonpotable use only) at dosages ranging from 5-500 ppm.

Mill Process Waters:

- Continuous Feed - BioSide™ HS 5% should be fed continuously at dosages ranging from 5-500 ppm. This range may be equivalent to 0.4-40 lbs. BioSide™ HS 5% per ton (dry basis) of pulp or paper produced.
- Intermittent Feed - BioSide™ HS 5% should be fed intermittently (6-8 times per day) at dosages ranging from 5-500 ppm. This dosage may be equivalent to 0.4-40 lbs. BioSide HS 5% per ton (dry basis) of pulp or paper produced during the feed period.
- Shock Dose - BioSide™ HS 5% should be shock dosed at dosages ranging from 50-1000 ppm. This dosage may be equivalent to 4-82 lbs. BioSide™ HS 5% per ton (dry basis) of pulp or paper produced during the feed period.

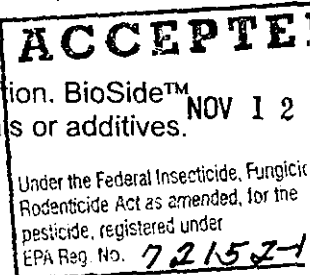
Control of bacteria and fungi in dispersed pigments

BioSide™ HS 5% can be used in control of bacteria and fungi in the manufacturing and storage of dispersed pigments such as kaolin clay, titanium dioxide, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate and diatomaceous earth used in paint and paper production.

Add 0.3 to 1.5 lbs. (5 to 25 fl. oz.) of BioSide™ HS 5% to each 1000 lbs. of pigment slurry. This will provide 300 to 1500 ppm of product.

CONTROL OF SLIME FORMING BACTERIA TO COOLING WATER SYSTEMS (COOLING TOWERS, EVAPORATIVE CONDENSERS).

Severely fouled systems should be cleaned before adding the BioSide™ HS 5% solution. BioSide™ HS 5% should be added in the system directly and not mixed with any other chemicals or additives. Contamination with other chemicals could result in product decomposition.



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Add BioSide™ HS 5% at a point in the system where uniform mixing and even distribution will occur.

Use 0.3 to 1.5 lbs. (5 to 24 fl. oz) of BioSide™ HS 5% per 1000 gallons of solution as a continuous or intermittent slug treatment. This will provide 300 - 1500 ppm of product. Repeat treatment as required to maintain control.

Storage and Disposal

Storage: Never return BioSide™ HS 5% 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 BioSide™ HS 5% 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, flares, 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.

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 by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. 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. BioSide™ HS 5% 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.

Container Disposal: >5 gallon plastic drums: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or, if allowed by State and local authorities, by burning. If burned, stay out or smoke.

>5 gallons plastic tote bin liners: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration or, if allowed by State and local authorities, by burning. If burned, stay out or smoke.

BioSide™ HS 5% (Peroxyacetic Acid Solution)

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Allendale, New Jersey 07401-446

