

BIOCHEK® 60

FOR PRODUCTION OF BACTERIOSTATIC PAPER PRODUCTS

00-6027-55
FORMERLY 6027A

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN
WARNING

CAUSES EYE AND SKIN IRRITATION.
CAN BE ABSORBED THROUGH THE SKIN.
HANDLE WITH CARE.

DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.
WEAR GOGGLES AND RUBBER GLOVES WHEN HANDLING.

WASH THOROUGHLY AFTER HANDLING.

REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

AVOID STORAGE NEAR FOOD OR FOOD PRODUCTS.

DO NOT USE NEAR HEAT OR OPEN FLAMES.

KEEP CONTAINER CLOSED.

STATEMENT OF PRACTICAL TREATMENT

IN CASE OF CONTACT, WASH SKIN IMMEDIATELY
WITH SOAP AND WATER; FLUSH EYES WITH WATER
FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

ENVIRONMENTAL HAZARDS

DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO
LAKES, STREAMS, PONDS, ESTUARIES, OCEANS, OR PUBLIC
WATERS, UNLESS THIS PRODUCT IS SPECIFICALLY IDENTIFIED
& ADDRESSED IN AN NPDES PERMIT. DO NOT DISCHARGE
EFFLUENT CONTAINING THIS PRODUCT TO SEWER SYSTEMS WITH-
OUT PREVIOUSLY NOTIFYING THE SEWAGE TREATMENT PLANT
AUTHORITY. FOR GUIDANCE CONTACT YOUR STATE WATER BOARD
OR REGIONAL OFFICE OF THE EPA.

6027-55/07-90

ACTIVE INGREDIENTS

DODECYLGUANIDINE HYDROCHLORIDE

24.74%

INERT INGREDIENTS

75.26%

TOTAL

100.0%

DEC 06 1990

**KEEP OUT OF REACH
OF CHILDREN
WARNING**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

DIRECTIONS FOR USE:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT
IN A MANNER INCONSISTENT WITH ITS LABELING.

BIOCHEK 60 IS TO BE USED IN THE RANGE OF 1.4 TO
1.6 POUNDS OF PRODUCT PER TON OF PAPER.

EPA REGISTRATION NO 10445-42

EPA Establishment No 10445-PA-01

NET WEIGHT 400 LB (181.4 KG.)

STORAGE AND DISPOSAL

PROHIBITIONS: DO NOT CONTAMINATE WATER, FOOD, OR
FEED BY STORAGE OR DISPOSAL.
OPEN DUMPING IS PROHIBITED.

PESTICIDE DISPOSAL: WASTE RESULTING FROM THE USE
OF THIS PRODUCT MAY BE DISPOSED OF ON SITE OR AT
AN APPROVED WASTE DISPOSAL FACILITY.

CONTAINER DISPOSAL:

METAL CONTAINERS-TRIPLE RINSE OR EQUIVALENT.
THEN OFFER FOR RECYCLING OR RECONDITIONING, OR
PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL,
OR BY OTHER PROCEDURES APPROVED BY STATE AND
LOCAL AUTHORITIES.

PLASTIC CONTAINERS-TRIPLE RINSE OR EQUIVALENT.
THEN OFFER FOR RECYCLING OR RECONDITIONING, OR BY
OTHER PROCEDURES APPROVED BY STATE OR LOCAL
AUTHORITIES, OR BY BURNING. IF BURNED, STAY OUT
OF SMOKE.

NOTICE: SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE
USE OF THIS PRODUCT OTHER THAN INDICATED ON THE LABEL. BUYER ASSUMES
ALL RISK OF USING AND/OR HANDLING OF THIS MATERIAL WHEN SUCH USE
AND/OR HANDLING IS CONTRARY TO THE LABEL INSTRUCTION.

BIOCHEK 60 IS FDA-APPROVED FOR USE IN SLICIDICES IN THE MANUFACTURE OF
FOOD CONTACT PAPER AND PAPERBOARD (21CFR176.300), AND FOR USE IN THE
PAPER AND PAPERBOARD WHICH CONTACTS FOOD AS PRESCRIBED IN 21CFR176.170
FOR N-DODECYLGUANIDINE HYDROCHLORIDE.

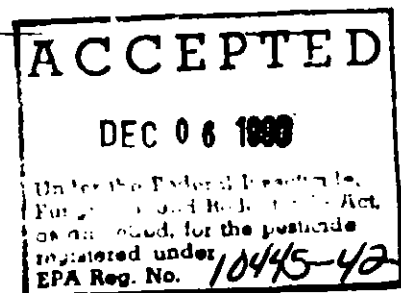
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to pulp, paper, and board products. It can be applied in the wet end through a unique patented process or by conventional methods such as spraying or dipping. BIOCHEK 60 is a specially formulated guanidine derivative which has an affinity for fibers. It is a broad-spectrum biocide which will control many disease-producing bacteria and other microorganisms in a wide range of paper products such as, professional towels, surgical face masks, caps and gown, instrument wrappings, disposable diapers, covers for hospital night stands, aseptic facial tissues, sanitary goods and bathroom tissue.

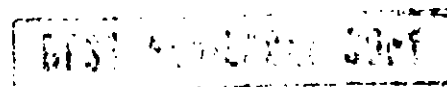
BIOCHEK 60 can be used in the manufacture of paper and paperboard for food packaging as regulated under 21 CFR 176.170 and as a slimicide in the production of food contact paper (21 CFR 176.300).

ADVANTAGES

- o When BIOCHEK 60 is applied by the recommended method its germ-fighting properties are uniformly built into fibers. Inconvenient and hazardous dipping or spraying of finished products is not required.
- o Application is simple and there is no need for special equipment or major changes in paper-making procedures.
- o BIOCHEK 60 causes no operating problems in mill water systems. It will not affect sheet brightness, cause odors, contribute to foaming, coat dryers, clog felts, corrode wires, or adversely affect formation or physical properties of the finished sheet.
- o Antibacterial properties of tissue treated with BIOCHEK 60 have been demonstrated in laboratory tests. Experiments with treated tissue inoculated with *Staphylococcus aureus*, a disease-producing bacteria normally found on human skin, resulted in a 50% reduction in organisms after a two-hour exposure. This indicates that BIOCHEK 60-treated tissue has germ-killing as well as germ-inhibiting properties. Effectiveness increased to 98% when exposure was lengthened to 6 hours.
- o Hospital tests have shown that tissue treated with BIOCHEK 60 is effective against the antibiotic-resistant "golden" *Staphylococcus* and other *Staphylococcus aureus* strains freshly isolated from human infections.



BIOCHEK 60
PRODUCT BULLETIN



ADVANTAGES (Cont.)

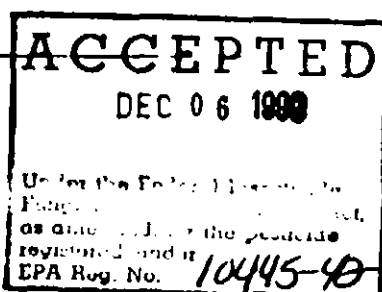
- o BIOCHEK 60 is especially effective against ammonia-producing bacteria that contribute to diaper rash. Laboratory tests show that disposable diapers treated with BIOCHEK 60 more effectively stop ammonia formation by *Brevibacterium ammoniagenes* than diapers treated with another well-known bactericide.
- o Tissue treated with BIOCHEK 60 remains antibacterial after long periods of storage. BIOCHEK 60-treated products can also be sterilized by autoclaving without effect upon the antibacterial properties.
- o During manufacture of antibacterial paper, BIOCHEK 60 can also protect white water systems against biological accumulations. Depending on the system, it can minimize or eliminate the need for other routine slime control chemicals.
- o Patch tests with BIOCHEK 60 have shown that use concentrations are nonirritating to normal skin.
- o BIOCHEK 60 is stable and retains its chemical, physical, and biocidal properties for long periods of time under usual storage conditions.

TYPICAL PROPERTIES

Chemical Name	Dodecylguanidine hydrochloride
Description	Pale yellow liquid
Active ingredients	24.74% Dodecylguanidine hydrochloride
Color	Pale yellow
Odor	Mildly alcoholic
Specific gravity	0.96
Weight per gallon	7.96 lb.
Freezing point	14°F (readily redissolved; freezing does not affect activity)
pH of concentrate	3.0
pH of 1% solution	4.5

PACKAGING

55-gal. polyethylene-lined steel drums, net weight 400 lb. Freight classification, Disinfectants, NOI, other than medicinal and other than toilet preparations.



BIOCHEK 60
PRODUCT BULLETIN

STORAGE AND DISPOSAL

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PROHIBITIONS

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE DISPOSAL

Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL
(For Metal Containers)

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities.

(For Plastic Containers)

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or by other procedures approved by State and local authorities, by burning. If burned, stay out of smoke.

PRECAUTIONS

WARNING! MAY BE HARMFUL OR FATAL IF SWALLOWED. MAY ABSORBED THROUGH SKIN. CAUSES EYE AND SKIN IRRITATION. Handle with care. Avoid contact. Do not get in eyes, on skin, on clothing. Wear goggles and rubber gloves when handling. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse. Avoid storage near feed or food products. Do not use or store near heat or open flame. Keep container closed. In case of contact, wash skin immediately with soap and water; flush eyes with water for at least 15 minutes. Get medical attention.

Information concerning human and environmental exposure may be reviewed on the Material Safety Data Sheet and label for this product.

For additional information regarding incidents involving human and environmental exposure, call 412-777-8000 and ask for the Health & Environmental Affairs Department.

ACCEPTED

DEC 06 1988

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 10445-42