KATHON™ LX 1.5% BIOCIDE

Industrial Microicide for use in Polymer Latices, Adhesives, Tackifiers, Paints, Dispersed Pigments, Building Materials, Photoprocessing Systems, and, Metal Cleaning Fluids

ACTIVE INGREDIENTS:
- 5-CHLORO-2-METHYL-4-SOTHALAZOLIN-3-ONE: 1.11%
- 2-METHYL-4-SOTHALAZOLIN-3-ONE: 0.39%
- NEUTRALIZING AGENT: 99.50%
TOTAL: 100.00%

KEEP OUT OF REACH OF CHILDREN
DANGER
FIRST AID

IF ON SKIN:
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 min.
- Call a poison control center or doctor for treatment advice.
- Hold eyes open and rinse slowly and gently with water for 15-20 min.
- Remove contaminated clothing, if possible, after first 5 min, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.
- Move person to fresh air.
- If person is breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.
- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Have person sip a glass of water if able to swallow. Do not give anything to an unconscious person.
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- Have person sip a glass of water if able to swallow. Do not give anything to an unconscious person.

IF INHALED:
- Call a poison control center or doctor for treatment advice.
- Move person to fresh air.
- If person is breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

IF SWALLOWED:
- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Have person sip a glass of water if able to swallow. Do not give anything to an unconscious person.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER
CORROSIVE
CAUSES IRREVERSIBLE EYE DAMAGE AND SKIN BURNS MAY CAUSE ALLERGIC SKIN REACTION MAY BE FATAL IF INHALED
HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN

Do not get in eyes, on skin, or on clothing. Mixers, launderers and others exposed to this product must wear long-sleeved shirt and long pants, chemical resistant gloves such as nitrile or butyl rubber, shoes plus socks, goggles and face shield; and chemical resistant apron. Discard clothing or other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions are available, use detergent and hot water. Keep and wash PPE separately from other laundry. Avoid skin contact; wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Use only on labeled uses. Do not expose pesticide-treated clothing or equipment to the elements. Clean thoroughly and provide contact with the EPA Regional Office for guidance.

ENVIRONMENTAL HAZARDS
This product is toxic to aquatic plants, 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 the 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 Office of the EPA. Do not contaminate water by cleaning of equipment or disposal of waste. Apply this pesticide only as specified on this label.

STORAGE AND DISPOSAL
PESTICIDE STORAGE
Do not contaminate water, food, or feed by storage or disposal or cleaning of equipment. Do not apply this product in a way that will contact workers or other persons. PESTICIDE DISPOSAL
Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or waste is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative near the EPA Regional Office for guidance.

CONTAINER DISPOSAL
Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities. GENERAL: CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED ALTERNATIVE PROCEDURES.

CONDITIONS OF SALE AND WARRANTY:
Rhône and Haas warrant that this product conforms to its chemical description and is reasonably fit for the purpose stated on the label only when used in accordance with label directions and as defined under the Clean Water Act. Rhône and Haas makes no other express or implied warranties, whether of merchantability or fitness. FOR A PARTICULAR USE, HANDLING, STORAGE, AND USE OF THIS PRODUCT BEYOND THE LIMITS STATED ON THE LABEL, THE MANUFACTURER OR DISTRIBUTOR SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE HANDLING, STORAGE, OR USE OF THIS PRODUCT.

EPA Reg. No.: 707-134
EPA Est. No.: 707-2015-0002

SEE SIDE PANELS 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.

POLYMER LATEX PRESERVATION

KATHON™ LX 1.5% Biocide is recommended for the control of bacteria and fungi in the manufacture and storage of synthetic and natural polymer lattices including: acrylic, styrene/butadiene; carboxylated styrene/butadiene; ethylene/vinyl acetate; and copolymers intended for industrial use, such as xanthum gum, gum arabic, guar gum, protein-derived polymers, starches, casein-derived polymer lattices and solution polymers. Add 0.43–3.3 pounds of KATHON™ LX 1.5% Biocide (195 grams–1,500 kilograms of 4050 ppb product (6.25–50 ppm active isothiazolones)).

NOTE: To ensure uniform mixing, add KATHON™ LX 1.5% Biocide to latex or solutions slowly with agitation. The actual required concentrations will depend upon such factors as the specific substance to be treated, frequency of repeated microbial contamination expected, and level of protection required.

COMMERCIAL PHOTOPROCESSING SYSTEM PRESERVATION

KATHON™ LX 1.5% Biocide is recommended to prevent microbial biofilm formation or accumulation in filters and ion exchange resin tanks of commercial photoprocessing systems. For the maintenance of a non fouled system, use KATHON™ LX 1.5% Biocide at 32–64 fluid ounces (2–4 pounds) per 1000 gallon water in the system once weekly, or as needed, to maintain control of slime. This corresponds to 200–500 ppm KATHON™ LX 1.5% Biocide (3.8–7.5 ppm active ingredient).

For a noticeably fouled system use an initial dose of 64–148 fluid ounces (4–10 pounds) per 1000 gallon water to be followed by subsequent maintenance dosage. This corresponds to 500–1,167 ppm KATHON™ LX 1.5% Biocide (7.7–17.5 ppm active ingredient). The preservative should be dispersed into the final rinse or used water collection tank.

METAL CLEANING FLUID PRESERVATION

KATHON™ LX 1.5% Biocide is recommended for use in the manufacture and use of alkaline, acid, and emulsion-based metal cleaning fluids typically used in electroplating, phosphating, galvanizing, and general metal cleaning operations. For addition to a metal cleaning concentrate, add KATHON™ LX 1.5% Biocide at a level to ensure that the final use-dilution fluid will contain 425–1,675 ppm product (6.25–25 ppm active isothiazolones). For direct addition to a fouled system, add 54–214 fluid ounces (3.6–14.1 pounds) of KATHON™ LX 1.5% Biocide to each 1000 gallons of use-dilution metal cleaning fluid every 3–4 weeks to provide 425–1,675 ppm active isothiazolones. A higher dosage range and/or increased frequency of treatment may be required depending upon rate or dilution of the preservative with make-up fluid, the nature and severity of contamination, level of control required, filtration effectiveness, system design, etc. The preservative should be dispersed into the use-dilution metal cleaning fluid using a metering pump and uniformly dispersed throughout the system.

Refer to the table at the end of this section for dosing details for the following applications.

ADHESIVE AND TACKIFIER PRESERVATION

KATHON™ LX 1.5% Biocide is recommended as an in-container preservative for the control of bacteria and fungi in water-soluble and water-dispersed adhesives such as animal glues, vegetable glues, natural rubber latexes, polyvinyl acetate, styrene/butadiene, and acrylic lattices. KATHON™ LX 1.5% Biocide is recommended as a preservative for tackifiers derived from rosin and hydrocarbon resins.

BUILDING MATERIAL PRESERVATION

KATHON™ LX 1.5% Biocide is recommended as an in-container preservative for the control of bacteria and fungi in building materials such as mastics, caulks, joint cements, spackling and grouting.

DISPERSED PIGMENT PRESERVATION

KATHON™ LX 1.5% Biocide is recommended for the control of bacteria, fungi, and microbial biofilms in the manufacture and storage of dispersed pigments such as kaolin and montmorillonite clays, lithionium dioxides, calcium carbonate, calcium sulfate, barium sulfate, magnesium silicate, and kieselguhr used in paint and paper productions.

PAINT AND COATING PRESERVATION

KATHON™ LX 1.5% Biocide is recommended as an in-container preservative for the control of bacteria and fungi in water-based coatings such as paper and wood coatings, and paints used for architectural product finishes, and special purpose products.

<table>
<thead>
<tr>
<th>lb. of product per 1000</th>
<th>g of product per 453</th>
<th>ppm of product</th>
<th>PPM Active ingredient</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb. fluid</td>
<td>kg fluid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.43 lb.</td>
<td>195 g</td>
<td>425 ppm</td>
<td>6.25 ppm</td>
</tr>
<tr>
<td>1.65 lb.</td>
<td>750 g</td>
<td>1675 ppm</td>
<td>25.0 ppm</td>
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KATHON™ LX 1.5% Biocide weighs 8.4 pounds per gallon