

Product Information

KATHON™ LX 1.5 %

Liquid preparation of 5-Chloro-2-methyl-4-isothiazolin-3-one (CMIT) and 2-Methyl-4-isothiazolin-3-one (MIT)



KATHON™ LX 1.5 %

EPA Registration No. 707-134

Uses

KATHON™ LX 1.5 % is a liquid preservative containing the isothiazolone active ingredients CMIT/MIT . The product inhibits and controls bacterial and fungal growth in industrial aqueous compositions such as latex paints, industrial coatings, polymer latices, specialty pigments, and building materials. It does not offer dry film protection against fungi or algae.

Chemical and physical data

Active ingredient:	1.5 % 5-chloro-2-methyl-4-isothiazolin-3-one (CMIT) and 2-methyl-4-isothiazolin-3-one (MIT)
Product description:	Light blue to light green liquid

Specification

The specification parameters can be found in the currently valid product specification.

Characteristic data*

Density (77 °F / 25 °C):	1.02 g/ml
pH (w/w):	2 - 4
Viscosity (77 °F / 25 °C):	3 cps
Solubility in water % @ 77 °F / 25 °C:	Miscible

*These items are provided as general information only. They are approximate values and are not considered to be part of the product specifications.

Storage

Product should be stored in the original sealed package.

KATHON™ LX 1.5 % is an aqueous solution; therefore, appropriate measures should be taken to ensure the temperature does not exceed 104 °F / 40 °C and that the product does not freeze during the transport and storage.

If stored properly, KATHON™ LX 1.5 % has a shelf life of at least 18 months.

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Application

KATHON™ LX 1.5 % is readily incorporated into formulations. KATHON™ LX 1.5 % is compatible with surfactants and emulsifiers regardless of their ionic nature. KATHON™ LX 1.5 % will not adversely affect product physical properties or performance and should not impart odor or color to most final products.

KATHON™ LX 1.5 % can be incorporated at any stage of the production process. KATHON™ LX 1.5 % has a low viscosity; therefore, the product can be added directly or pre-dissolved in water before immediate use.

KATHON™ LX 1.5 % is readily soluble in water, methanol, ethanol, isopropyl alcohol, and acetic acid. KATHON™ LX 1.5 % is insoluble in acetone.

Preservation

KATHON™ LX 1.5 % provides broad spectrum microorganism control in water-based systems. KATHON™ LX 1.5 % is a non-foaming, water-based product that is readily biodegradable after appropriate dilution. KATHON™ LX 1.5 % is compatible with most organic and inorganic compounds used in coatings latex polymers, and polymer slurries.

The approved dosage level ranges are provided in the “Directions for use” section below, but variables such as pH, temperature, initial microbial load or intended storage time of the product to be preserved should be considered when selecting a dosage level within EPA limits.

Material Compatibility

Metals

Recommended: Glass-Lined, 316L (limited) Alloy 20, Hastelloy C-276, Titanium

Not Recommended: CS, 304, 304L, 316, 316Ti, Monel 400

Plastics

Recommended: HDPE, PTFE, FEP, FI-HDPE, PP, PVDF (Kynar), Ryton, Plasite 4300 (vinyl ester), Derakane 411 (vinyl ester), Furan (Hetron 800), Atlac 382 Polyester

Not Recommended: LDPE, PVC, Plasite 9570 (Baked Epoxy)

Elastomers

Recommended: Viton

Not Recommended: EPDM/Nordel, Buna-N, Buna-S, Neoprene, Butyl

As with any product, use of the product mentioned in this publication in each application must be tested (including field testing, etc.) by the user in advance to determine suitability.

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Directions for use

It is a violation of Federal law to use this product in a manner inconsistent with its labelling. The following guidance is given as an approximation for each use pattern, but field-testing is recommended to achieve optimum effectiveness.

Application	Dosage Level of KATHON™ LX 1.5 % Product
Polymer Latex Preservation	0.0417 - 0.3335 % of KATHON™ LX 1.5 %
Commercial Photoprocessing System Preservation For noticeably fouled systems Initial dose	0.0250 - 0.0500 % of KATHON™ LX 1.5 % 0.05 - 0.1167 % of KATHON™ LX 1.5 %
Metal cleaning concentrate to ensure final use dilution fluids For a fouled system	0.0417 - 0.1667 % of KATHON™ LX 1.5 % 0.0417 - 0.1667 % of KATHON™ LX 1.5 % every 3 - 4 weeks
Adhesive and Tackifier Preservation	0.0417 - 0.1667 % of KATHON™ LX 1.5 %
Building Material Preservation	0.0417 - 0.1667 % of KATHON™ LX 1.5 %
Dispersed Pigment Preservation	0.0417 - 0.1667 % of KATHON™ LX 1.5 %
Paint and Coatings Preservation	0.0417 - 0.1667 % of KATHON™ LX 1.5 %

Registration / Approval / Recommendation

EPA Registration No. 707-134

Regulatory Compliance Information: Some of the end uses of the products described in this publication must comply with applicable regulations, such as the FDA, NSF, USDA, CPSC and BfR. If you have any questions on the regulatory status of these products, contact your LANXESS Corporation representative or Regulatory Affairs Manager at LANXESS.

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Health & Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling the LANXESS products mentioned in this publication. For materials mentioned which are not LANXESS products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be followed. Before working with any of these products, you must read and become familiar with the available information on their hazards, proper use, and handling. This cannot be overemphasized. Information is available in several forms. Consult your LANXESS Corporation representative or contact the Product Safety and Regulatory Affairs Department at LANXESS.

Precautions

When handling, KATHON™ LX 1.5 % general recommendations for handling any chemicals should be observed, e.g. wearing of protective clothing, safety goggles and protective gloves. Skin contact and inhalation of vapors should be avoided. If the product comes into contact with the body, the affected area should be washed immediately with large amounts of soap and water (e.g. product that has been splashed in the eyes should be rinsed out immediately with plenty of water). If irritation persists, the affected individual should obtain medical attention. Contaminated clothing should be removed and properly cleaned or disposed.

The current safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety, toxicity and ecology.

Use biocides safely. Always read the label and product information before use.

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The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by us. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent.

Note: The information contained in this bulletin is current as of the edition date. Please contact LANXESS Corporation to determine if this publication has been revised.

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