



KATHON™ LXE BIOCIDES **In-can Preservation for Paints and** **Other Technical Products**

General

KATHON™ LXE Biocide is an active ingredient preparation of chloromethylisothiazolinone/methylisothiazolinone to preserve paints, binder dispersions and other technical products.

KATHON LXE contains active substances permitted by the BfR and FDA for use in their application field, provided that the customary dosage rates are not exceeded.

KATHON LXE may be employed in products to be used in close proximity to food, but not in immediate contact.

Physical Properties

The following are typical physical properties of KATHON LXE Biocide; **they are not to be considered product specifications.**

Appearance	pale yellow to green liquid
Odour.....	weak
Density @ d 20/4 (ISO 2811-3)	1.029 ± 0.01 g/ml
Refractive index @ n 20/D (ASTM D 1218-02)	1.343 ± 0.005
Viscosity @ η 20°C (ISO 3219).....	max. 20 mPa.s
pH (1% in water).....	5 (typical)
Flash point (ISO 2592)	> 100°C o.c. Cleveland

Miscibility/Solubility

Forms clear solutions in all proportions with water, low alcohols, glycols, and glycol ethers.

Compatibility

KATHON LXE is compatible with most common binders. It is generally advisable to check compatibility prior to any application to a special case.

Stability

Temperature: up to 40°C (short period to 60°C) pH range: 4 to 9

Antimicrobial Activity

KATHON LXE is a wet state preservative with a very wide application field such as paints, plasters, adhesives, inks, dispersion and emulsion binders and aqueous technical products in general. It can be used alone or in combination with other active ingredients such as methylisothiazolone (KORDEK™ MLX) or formaldehyde donors.

KATHON™ LXE is a proven slimicide in paper manufacturing. KATHON LXE contains neither formaldehyde nor cationic or phenolic substances. Therefore, it is particularly suited for use in products not compatible with these substances.

KATHON LXE has a broad spectrum of activity. It is effective against gram-positive and gram-negative, aerobic and anaerobic bacteria as well as against mould and yeast.

KATHON LXE complies with several food contact legislations of the European Union and of the Food and Drug Administration (FDA) of the USA.

For specific information please contact your local sales representative.

Applications/ Directions for Use

The number of technical products being preserved with KATHON LXE is increasing steadily and it is not always possible to predict its suitability. The optimum use should be established by a preliminary experiment. In critical cases, predilution with water is often helpful. The optimum dosage rate of KATHON LXE depends upon the degree of contamination and the susceptibility of the product to be preserved.

Occasionally, the degree of contamination exhibits seasonal fluctuation, so that a periodical determination of germ counts can assist in choosing the optimum dosage rate.

Therefore, the ranges of concentrations listed below should be taken as general guidelines only:

Binders	0.05 - 0.3%
Other products	0.05 - 0.15%

In the case of special application, please consult with your local sales representative.

Storage, Handling and Disposal

Please refer to the Safety Data Sheet of this product for precise handling instructions.

In general, avoid eye and skin contact, wear safety goggles, gloves and protective clothing. In case of eye or skin contact despite precautionary measures, wash immediately and thoroughly with plenty of warm water and obtain medical attention.

The legal requirements prevailing in your country, especially on working hygiene and in the avoidance of accidents, must be observed.

KATHON LXE Biocide should be stored in closed original containers in a cool place, but not below 0°C. At temperatures below 0°C solidification of the product may occur. If the product does freeze, allow it to return to room temperature and it will turn liquid again. Bioactivity is unaffected by freezing and melting.

Product Stewardship

Dow Microbial Control encourages its customers to review their applications of Dow Microbial Control products from the standpoint of human health and environmental quality. To help ensure that Dow Microbial Control products are not used in ways for which they are not intended or tested, Dow Microbial Control personnel are willing to assist customers in dealing with ecological and product safety considerations. Contact your representative if you need any assistance or information. When considering the use of any Dow product in a particular application, review the latest Safety Data Sheet and country-specific product label to ensure the intended use is within the scope of approved uses and can be accomplished safely. Before handling any of the products mentioned in the text, obtain available product safety information and take necessary steps to ensure safety of use.

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¹except Indonesia and Vietnam

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