



KORDEK™ MLX Biocide

In-Can Preservation for Paints, Adhesives and Related Products

General

KORDEK™ MLX Biocide is an active ingredient solution for the preservation of paints, binder dispersions, adhesives and other technical products.

KORDEK MLX contains an active substance permitted for use in food contact coatings and adhesives provided that the customary dosage rates are not exceeded.

KORDEK MLX is a straight aqueous solution of the active ingredient Methylisothiazolone, and does not contribute to VOC and AOX.

Physical Properties

The following are typical properties of KORDEK™ MLX Biocide; **they are not to be considered product specifications.**

Appearance:	Colorless to yellowish liquid
Odor:.....	Mild
Color (Gardner):	Max. 3 ISO 4630
Density d 20/4.....	1.026 ± 0.01 g/mL ISO 2811-3
Refractive index n 20/D:	1.354 ± 0.005 ASTM D 1218-02
pH, as is:.....	3 - 6
Flash point:.....	> 100°C o.c. Cleveland ISO 2592

Miscibility/Solubility

Infinite solubility in water, miscible in a wide range of water soluble solvents.

Compatibility

KORDEK MLX shows a very good compatibility even after undiluted addition. A series of experiments have shown that viscosity and color of the finished products preserved with KORDEK MLX remain unchanged.

Stability

Temperature: up to 60°C (short periods to 80°C), pH range: 4 to 11.

Application and Activity

KORDEK™ MLX combines environmental acceptability with effective preservation. It can be used in a wide range of products such as paints, adhesives, latex emulsions, tackifiers, mineral slurries, pigment dispersions and other technical, water-based products.

KORDEK MLX is a straight solution of the active ingredient in water and does not contain any additives or salt. It is therefore suited to preserve products which are free of VOC (volatile organic compounds) and AOX (adsorbable, halogenated organic substances). In most cases it shows a very good compatibility and will not cause coagulation even if added undiluted.

KORDEK MLX has a broad spectrum of activity against all commonly occurring micro-organisms in the application field. It must be understood that KORDEK MLX cannot provide a protection in the vapor phase due to absence of formaldehyde and other volatile microbicides. Therefore, appropriate hygienic measures should be followed during paint production.

KORDEK™ MLX 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 Dow representative or liaise with our Product Integrity Department.

The number of technical products being preserved with KORDEK MLX is increasing steadily and it is not always possible to predict its suitability. The optimum use should be established by preliminary studies.

Dosage

The optimum dosage rate of KORDEK™ MLX 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.

The typical use concentration ranges between 0.05 – 0.15%.

In the case of special application, please consult either our Technical or our Biological Laboratories for assistance.

Product Stewardship

When considering the use of any Dow product in a particular application, review the latest Safety Data Sheet (SDS) and country-specific product label to ensure the intended use is within the scope of approved uses. Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products – from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including Safety Data Sheets (SDS), should be consulted prior to use of Dow products. Current Safety Data Sheets are available from Dow.

For further information visit our website:
www.dowmicrobialcontrol.com
or call:

Central and Eastern Europe:

Turkey +90-216-571-16-00

Russia +7-495-663-78-20

Poland +48-22-543-18-00

Western Europe:

+800-3-694-6367 (toll-free)

+31-115-67-26-26 (phone)

+31-115-67-28-28 (fax)

North America:

+1-800-447-4369 (toll-free)

+1-989-832-1560 (phone)

+1-989-832-1465 (fax)

Middle East and Africa:

UAE +971-4-332-88-66

South Africa +800-99-5078 (toll-free)

Greater China:

Shanghai +86-21-3851-1000

Beijing +86-10-8527-9199

Guangzhou +86-20-3813-0600

Taiwan +886-227-718-000

Southeast Asia:

Philippines +63-2-867-3293

Indonesia +62-21-2995-6273

Singapore +65-6830-4575

+65-6796-6217

Thailand +66-2365-7371

Vietnam +84-8-3822-5808

Malaysia +603-7965-5200

Australia and New Zealand:

+613-9226-3500 (phone)

+61-3-9226-3562 (fax)

Japan and Korea:

Japan +81-3-5460-2261

Korea +82-2-3490-4348

Indian Subcontinent:

+91-22-6793-4953 (phone)

+91-22-6793-4924 (fax)

Latin America:

+55-11-5188-9555 (phone)

+55-11-5188-9400 (fax)

Other Global Areas:

+1-989-832-1560 (phone)

+1-989-832-1465 (fax)

Notice: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

USE BIOCIDES SAFELY. ALWAYS READ THE LABEL AND PRODUCT INFORMATION BEFORE USE.

