



Dow Microbial Control

KORDEK™ LX 5000 Industrial Microbiocide

For Concentrate and Tankside Metalworking Fluids

KORDEK™ LX 5000 Industrial Microbiocide is **highly stable** at elevated temperatures and in high pH formulations. It provides extended control of bacteria in metalworking fluids.

Benefits of KORDEK™ LX 5000 Industrial Microbiocide

- Fast acting and long lasting broad spectrum efficacy against bacteria, including mycobacteria
- Does not release or contain formaldehyde*
- Chemically compatible with most metalworking fluid concentrate components
- Globally approved and available



Formulating with KORDEK™ LX 5000 Industrial Microbiocide

Follow these recommendations to improve the stability and efficacy of the metal working concentrate formulation

1. Minimize or eliminate the use of amines. If the use of **amines** is necessary, choose combinations accordingly:

Percentage of Remaining Biocide (At 50°C over 4 weeks)	Synthetic Fluids	Semi-Synthetic Fluids
>90%	AMP/BHEMA, MIPA/BHEMA, AMP/TEA, DGA/TEA	DGA/BHEMA, MIPA/BHEMA
80–90%	MIPA/TEA	AMP/TEA
60–80%	DGA/BHEMA, MEA/TEA	MEA/TEA, DGA/TEA

2. Lower the pH of the formulation.

3. If a **stabilizer** is needed, add it first (Sodium Omadine, Potassium Iodate, Iodic Acid, IPBC, Sodium Pyrithione, Mercaptobenzothiazole), mix, and then add **KORDEK™ LX 5000 Industrial Microbiocide** at the same concentration as the stabilizer. This should occur as the last step of the formulation process, where the biocide and stabilizer are added at the lowest possible temperature.

4. Store concentrates in plastic lined drums and avoid carbon steel containers (may accelerate biocide degradation).

Primary Amines

AMP = Aminomethylpropanol
 MEA = Monoethanolamine
 MIPA = Monoisopropanolamine
 DGA = Diglycolamine

Tertiary Amines

TEA = Triethanolamine
 BHEMA = Bishydroxyethylmethylamine

* Formaldehyde is a ubiquitous material in our environment. Currently there is no accepted regulatory or industry definition of "Formaldehyde-Free." Therefore, we purposely refrain from using the term "Formaldehyde-Free." However, for KORDEK™ LX 5000 Industrial Microbiocide, we do not intentionally add formaldehyde or formaldehyde generators.

Dow Microbial Control

<http://www.dow.com/microbial>

US

Toll Free 800 441 4DOW
 989 832 1542

International

Europe / Middle East + 800 36 94 63 67
 Italy + 800 783 825
 Asia / Pacific + 800 77 76 77 76
 + 60 37 958 3392
 South Africa + 800 99 5078

©™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow

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.

Form Number: 253-03608-04 18 CDP