

Regional Product Availability

Please check with your LANXESS representative for specific country information.

General

Bioban® 425 Antimicrobial is a combination of active ingredients which delivers effective, broad-spectrum antibacterial and enhanced antifungal protection for a wide range of products including wipes¹.

Bioban® 425 Antimicrobial is a low VOC solution of: 25% active ingredient (2-methyl-4-isothiazolin-3-one (MIT) and 2-n-Octyl-4-isothiazolin-3-one (OIT)) in a proprietary low emission (LE) carrier.

Physical Properties

The following are typical properties of Bioban™ 425 Antimicrobial; **they are not to be considered product specifications.**

Appearance:	Colorless to pale yellow
Odor:	Mild
Density 20°C:	1.105 - 1.125 g/mL
pH (10% in DI water):	2 - 6

Benefits

Bioban® 425 Antimicrobial provides robust, long term protection of the finished product against a variety of bacteria in addition to yeast and mold for enhanced antifungal control.

Bioban® 425 Antimicrobial does not contain or release formaldehyde. It is formulated with low VOC ingredients and without salts. Additional benefits include:

- Pre-blended combination of two LANXESS products into a single formulation for streamlined plant operations
- Broad pH stability (2 to 10) and temperature stability (up to 50°C)
- Ease of incorporation in household products
- Compatible and effective with anionic, cationic, non-ionic surfactants and with most commonly used household product ingredients
- Cost effective

Applications/Dosage Recommendations

Provided below is a listing of target applications and recommended dosage ranges for Bioban® 425 Antimicrobial.

Table 1: Applications and dosage recommendations

Application	Recommended Dosage Rate (product, as supplied)	Dosage (total active ingredient)
All Purpose Cleaners	0.03-0.05%	75-125 ppm
Laundry	0.03-0.05%	75-125 ppm
Dish detergents	0.03-0.05%	75-125 ppm
Surfactants	0.03-0.05%	75-125 ppm
Automotive washes/ waxes	0.03-0.05%	75-125 ppm
Floor Polishes / Cleaners	0.03-0.06%	75-150 ppm
Air Care formulations	0.02-0.03%	50-75 ppm
Wet Wipes	0.06-0.075%	150-187.5 ppm

Dosage levels should be verified with testing due to the microbial susceptibility of various formulations.

¹Not to be used in Personal Care or Hygiene applications

Handling, Storage & Disposal

Please refer to the product Safety Data Sheet (SDS) for precise handling instructions.

The processing and use of industrial chemicals require adequate technical and professional knowledge.

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.

Bioban® 425 Antimicrobial should be stored in closed original containers at ambient temperature protected from direct heat. If the product does freeze, allow it to return to room temperature and it will turn to a liquid phase. The product can be used, after homogeneous stirring, without any loss of effectiveness. Bioactivity is unaffected by freezing and melting.

The shelf life of Bioban® 425 Antimicrobial, if stored in original containers under appropriate storage conditions, is of 24 months.

Customer Notice

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



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