



## BIOBAN™ 536 Antimicrobial

In-can Preservative for Paints, Polymer Emulsions and Related Products

### General

BIOBAN™ 536 Antimicrobial is a highly efficient preservative which provides broad spectrum preservation of water based products and provides head space protection in bulk storage tanks. BIOBAN 536 offers protection against bacteria, fungi and yeast and is suitable to protect water based paints, adhesives and polymer emulsions and other technical products. BIOBAN 536 is based on CMIT / MIT and a formaldehyde releaser, TMDU.

### Physical Properties

The following are typical properties of BIOBAN™ 536 Antimicrobial; **they are not to be considered product specifications.**

Appearance (BIO 1000): .....	Colorless to yellow, clear to cloudy	
Color (Gardner): .....	≤ 3	ASTM D1544
Density @ 20°C: .....	1.010 – 1.110 g/mL	ASTM D4052
pH value: .....	2 – 6	ASTM E70

### Miscibility/Solubility

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

### Compatibility

BIOBAN™ 536 Antimicrobial is compatible with most common paints, adhesives and polymer emulsions. It is generally advisable to check compatibility prior to any application. In critical cases, pre-dilution with water is often helpful.

### Stability

BIOBAN™ 536 Antimicrobial is stable in most paints, adhesives and polymer emulsions when added at a temperature below 60°C and in a pH range of 3 – 9.

### Applications/ Directions for Use

The amount of BIOBAN™ 536 Antimicrobial to be used depends on several factors like the bacterial contamination level of raw materials and type of products.

BIOBAN 536 can be added in any phase of the manufacturing cycle. To achieve best protection in paints, it is recommended to add part of BIOBAN 536 at the beginning of production and part in the let down step.

Optimum efficiency is achieved at pH between 5 and 9. The number of technical products being preserved with BIOBAN 536 is increasing steadily and it is not always possible to predict its suitability. The optimum use should be established by preliminary experiments. In critical cases, pre-dilution with water prior to addition is often helpful.

Suggested dosages to obtain good protection are:

Paints:	0.10 - 0.20%
Adhesives:	0.15 - 0.30%
Emulsions:	0.05 - 0.20%
Printing inks:	0.10 - 0.25%

Percentages are reported as weight/weight in the final product.

## **Storage, Handling and Disposal**

Please refer to the Safety Data Sheet (SDS) 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.

Proper ventilation must be ensured as this material may release formaldehyde during handling procedures.

BIOBAN™ 536 Antimicrobial is preferably stored in closed original containers at room temperature.

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

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

BIOBAN 536 is a biocidal product intended for use in accordance with product type 6 of the Biocidal Product Directive 98/8/EC (BPD).

## **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.

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