

Adhesives & Sealants

## GLOBAL PRODUCT OVERVIEW FOR RECENTLY ACQUIRED PORTFOLIO

### Dry-Film Preservatives

Product Name	Active Ingredient*	Features & Benefits
BIOBAN™ 200 Antimicrobial (aqueous dispersion)	DCOIT	<ul style="list-style-type: none"> <li>■ Excellent protection against fungi with some performance against algae and bacteria</li> <li>■ Ultra-low leaching for long-lasting protection</li> <li>■ Non-yellowing (not based on iodine)</li> <li>■ Green Chemistry Award winner technology</li> </ul>
ROZONE™ 2000 Mildewcide		
BIOBAN™ O 45 Antimicrobial	OIT	<ul style="list-style-type: none"> <li>■ Excellent protection against fungi</li> <li>■ Non-yellowing (not based on iodine)</li> </ul>
AMICAL™ 48 (solid)	DIMTS	<ul style="list-style-type: none"> <li>■ High-temperature stability</li> <li>■ Excellent protection against fungi</li> <li>■ Low leaching</li> </ul>
AMICAL™ Flowable Antimicrobial		
ROCIMAT™ 63 Industrial Microbiocide	OIT + CBM + Diuron	<ul style="list-style-type: none"> <li>■ Blended product designed to provide excellent broad spectrum protection against fungi and algae</li> </ul>

\* DCOIT: 4,5-dichloro-2-n-octyl-3(2H)-isothiazolinone  
CBM: Carbendazim

OIT: 2-n-octyl-4-isothiazolin-3-one  
DIMTS: diiodomethyl-p-tolyl sulfone

### In-Can Preservatives

Product Name	Active Ingredient*	Features & Benefits
BIOBAN™ OP 100 E Antimicrobial (solid)	OPP	<ul style="list-style-type: none"> <li>■ Low-leaching biocide</li> <li>■ Heat and pH stable</li> </ul>
BIOBAN™ SP 100 Antimicrobial (solid)	NaOPP	<ul style="list-style-type: none"> <li>■ Broad spectrum activity</li> <li>■ Water soluble</li> <li>■ Heat and pH-stable</li> </ul>
BIOBAN™ SP 25 Antimicrobial*		
BIOBAN™ BTCM Antimicrobial	BIT + CMIT/MIT	<ul style="list-style-type: none"> <li>■ Robust combination of two proven active ingredients for speed-of-kill and long-term preservation</li> <li>■ Provides formulation flexibility to adapt to globally-accepted levels of individual active ingredients</li> <li>■ Two actives delivered in one container for optimization of transportation, storage and addition</li> </ul>

Product Name	Active Ingredient*	Features & Benefits
KATHON™ LX 1.5% Biocide	CMIT/MIT	<ul style="list-style-type: none"> <li>■ Outstanding broad-spectrum protection against bacteria and fungi</li> <li>■ Fast acting preservative</li> <li>■ Does not contribute to VOC (ASTM D-6886)</li> <li>■ Does not release or contain formaldehyde<sup>(1)</sup></li> <li>■ Very low use levels required for efficacy</li> </ul>
BIOBAN™ 616 LA Antimicrobial	THNM + CMIT/MIT	<ul style="list-style-type: none"> <li>■ Efficacious against bacteria, yeast and mold</li> <li>■ Highly effective including against environmental strains</li> <li>■ Long-lasting preservative that includes a controlled release formaldehyde compound</li> </ul>
ROCIMA™ 586	Bronopol + CMIT/MIT	<ul style="list-style-type: none"> <li>■ Blend designed for excellent broad spectrum protection against bacteria and fungi, including Pseudomonas species</li> </ul>
ROCIMA™ BT 2S Microbicide	BIT	<ul style="list-style-type: none"> <li>■ Protection against bacteria</li> </ul>
ROCIMA™ BT NV2 (aqueous dispersion)		<ul style="list-style-type: none"> <li>■ Good heat and pH stability</li> <li>■ Not a formaldehyde donor<sup>(1)</sup></li> </ul>
BIOBAN™ BP-10 Preservative	Bronopol	<ul style="list-style-type: none"> <li>■ Excellent protection against bacteria</li> <li>■ Particularly effective against Pseudomonas species</li> <li>■ Works well in combination with other biocide chemistries like BIT or CMIT/MIT</li> </ul>
BIOBAN™ BP-30 Preservative		
BIOBAN™ BP-40 Preservative		
BIOBAN™ BP-Plus Preservative (solid)		
ROCIMA™ 607 Biocide	Bronopol + BIT	<ul style="list-style-type: none"> <li>■ Blend designed for excellent broad-spectrum protection against bacteria and fungi, including Pseudomonas species</li> <li>■ Good heat and pH stability</li> </ul>
UCARCIDE™ 25 Antimicrobial	Glutaraldehyde	<ul style="list-style-type: none"> <li>■ Broad spectrum protection against bacteria and fungi</li> <li>■ Not a formaldehyde donor<sup>(1)</sup></li> </ul>
UCARCIDE™ 50 Antimicrobial		
BIOBAN™ BZ Antimicrobial	BIT + ZPT	<ul style="list-style-type: none"> <li>■ Dual active action for high thermal stability</li> <li>■ Efficacy against Pseudomonas</li> </ul>
BIOBAN™ DXN	DXN	<ul style="list-style-type: none"> <li>■ Effective protection against bacteria and fungi</li> <li>■ Not a formaldehyde donor<sup>(1)</sup></li> </ul>
BIOBAN™ QK-20 Antimicrobial	DBNPA	<ul style="list-style-type: none"> <li>■ Quick kill biocide for rapid decontamination of process water or raw materials used to make industrial products</li> <li>■ Cleans up microbial contamination when added directly into final formulated industrial products, contributing to the performance of a long-term preservative</li> </ul>

\* OPP: o-phenylphenol / NaOPP: sodium o-phenylphenate  
 CMIT/MIT: 5-chloro-2-methyl-4-isothiazolin-3-one & 2-methyl-4-isothiazolin-3-one  
 ZPT: zinc 2-pyridinethiol-1-oxide  
 DBNPA: 2,2-dibromo-3-nitrilopropionamide

BIT: 1,2-benzisothiazolin-3-one  
 THNM: Tris(hydroxymethyl)nitromethane  
 DXN: 6-Acetoxy-2,4-dimethyl-1,3-dioxane

<sup>(1)</sup> 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, we do not intentionally add Formaldehyde or Formaldehyde generators to this product.



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