

Preservation Selection Guide - United States



Lonza Global Microbial Management Program

Plant hygiene is a vital part of the production process that helps to ensure a clean product. If not managed properly, it can result in product contamination and/or equipment failure. In today's growing regulatory environment, there is an increasing number of requirements restricting the type of biocides and the dosage levels in the final products making it even more important to minimize potential contamination from the starting point.

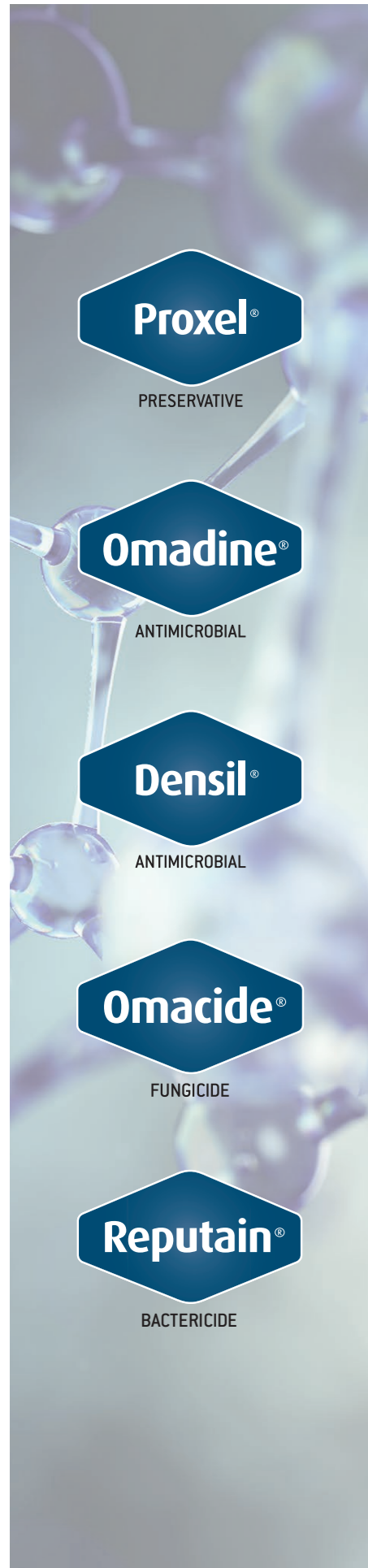
Lonza's Microbial Management Program is a complimentary service designed to help customers improve and maintain a clean production environment. This program includes plant hygiene visits, sample analyses, plant specific recommendations and access to an online portal which houses current and historical hygiene results and a learning center with information on best practices and safe handling of biocides.

Please contact your local representative to take advantage of this customized service and find out what we can do for you.

Plant Hygiene

Product Name	Actives	Form	pH Range of Use Formulation	Typical Dose Level
Reputain® B30	BNP	Solution in glycol	4.0 – 9.0	0.03 – 0.16%
Reputain® D20	DBNPA	Solution in poly-glycol	4.0 – 9.0	0.05 – 0.25%
Reputain® K50	Glutaraldehyde	Aqueous solution	4.0 – 9.0	0.02 – 0.2%





Wet-State Preservation

Lonza's diverse range of wet-state preservatives provide broad-spectrum performance against spoilage organisms. Our formulation range offers long-term preservation, temperature and pH stability and low viscosity for ease of handling.

	Product Name	Actives	Form	pH Range of Use Formulation	Typical Dose Level	Application									
						Paints / Coatings	Polymer Emulsions	Wood Stains	Adhesives & Sealants	Pigment Dispersions	Mineral Slurries	Construction Materials	Paper	Inks	
Trace Level VOC (< 0.02g/l)	Proxel® AQ	BIT	Aqueous solution	4.0 – 12.0	0.1 – 0.5%	▲	▲		▲	▲	▲	▲	▲	▲	
	Proxel® BC	BIT + MIT+ CMIT	Aqueous dispersion	4.0 – 9.0	0.1 – 0.5%	▲	▲			▲	▲	▲	▲	▲	
	Proxel® BD20	BIT	Aqueous dispersion	4.0 – 12.0	0.05 – 0.25%	▲	▲		▲			▲	▲	▲	
	Proxel® BZ	BIT + ZPt	Aqueous dispersion	4.5 – 11.0	0.05 – 0.4%	▲	▲		▲	▲		▲	▲	▲	
	Proxel® BZ PLUS	BIT + ZPt	Aqueous dispersion	4.5 – 11.0	0.05 – 0.4%	▲	▲		▲	▲		▲	▲	▲	
	Proxel® CMC-E	CMIT/MIT	Aqueous solution	2.0 – 8.5	0.05 – 0.33%	▲	▲		▲	▲		▲	▲	▲	
	Vantocil® IB	PHMB	Aqueous solution	1.0 – 12.0	0.1 – 0.5%	▲	▲	▲			▲		▲	▲	
Low VOC (0.02g/l – 4.00g/l)	Proxel® BN	BIT + Bronopol	Aqueous dispersion	4.0 – 9.0	0.05 – 0.4%	▲	▲	▲			▲		▲	▲	
	Proxel® DL	BIT	Solution in glycol	4.0 – 12.0	0.1 – 0.5%	▲	▲		▲				▲		
	Proxel® GXL	BIT	Solution in glycol	4.0 – 12.0	0.05 – 0.25%	▲	▲		▲		▲	▲	▲		
	Proxel® LS	BIT + NaPt	Aqueous solution	4.5 – 11.0	0.15 – 0.5%	▲	▲	▲	▲	▲	▲	▲	▲	▲	
	Proxel Spektra™	BIT + NaPt	Solution in amine	7.0 – 11.0	0.10 – 0.5%	▲	▲	▲	▲	▲	▲	▲	▲	▲	
	Proxel® TN	BIT + Triazine	Solution in amine	7.0 – 11.0	0.1 – 0.3%	▲	▲		▲	▲	▲	▲		▲	
	Proxel® XL2	BIT	Solution in glycol	4.0 – 12.0	0.1 – 0.5%	▲	▲		▲		▲	▲	▲	▲	
	Sodium Omadine® 2000	NaPt	Solution in amine	7.0 – 11.0	0.15 – 0.55%	▲	▲		▲	▲	▲	▲	▲	▲	
	Sodium Omadine® 40%	NaPt	Aqueous solution	4.5 – 11.0	0.4 – 0.8%	▲	▲		▲	▲	▲	▲	▲	▲	
	Dantogard®	DMDMH + DMH	Aqueous solution	2.0 – 8.5	0.05 – 0.33%	▲	▲	▲	▲	▲	▲	▲	▲	▲	
	Dantogard® Plus	DMDMH + IPBC	Solution in glycol	4.0 – 12.0	0.1 – 0.5%	▲	▲		▲		▲		▲	▲	
	Dantogard® XL-1000	DMDMH + DMH	Solution in glycol	4.0 – 12.0	0.05 – 0.25%	▲	▲		▲		▲		▲	▲	

*VOC tested at mid point of typical dose level with ASTM D6886-14 method

Dry-Film Preservation

Lonza's diverse range of dry-film biocides provide broad-spectrum, long-term performance from defacement due to fungi, yeast and algae. Liquid and powder formulations are available offering benefits including color stabilization, temperature and pH stability and low leaching.

	Product Name	Actives	Form	pH Range of Use Formulation	Typical Dose Level	Application									
						Paints / Coatings	Polymer Emulsions	Wood Stains	Adhesives & Sealants	Pigment Dispersions	Mineral Slurries	Construction Materials	Paper	Inks	
Trace Level VOC (< 0.02g/l)	Zinc Omadine® FPS Dispersion	ZPt	Aqueous dispersion	4.5 – 11.0	0.32 – 0.63%	▲	▲		▲	▲	▲	▲	▲		
	Zinc Omadine® Powder	ZPt	Solid	4.5 – 11.0	0.15 – 0.3%	▲	▲		▲	▲	▲	▲	▲		
Low VOC (0.02g/l – 4.00g/l)	Densil® DN	BBIT	Liquid active	2.0 – 12.0	0.05 – 0.11%	▲	▲		▲	▲	▲	▲		▲	
	Densil® DG 45	BBIT	Solution in glycol	2.0 – 12.0	0.11 – 0.24%		▲		▲		▲	▲	▲		
	Densil® Z0D	ZPt + OIT + Diuron	Aqueous dispersion	4.5 – 11.0	0.5 – 1.0%	▲		▲	▲			▲			
	Sodium Omadine® 2000	NaPt	Solution in amine	7.0 – 11.0	0.15 – 0.55%	▲	▲		▲	▲	▲	▲		▲	
	Sodium Omadine® 40%	NaPt	Aqueous solution	4.5 – 11.0	0.4 – 0.8%	▲	▲		▲	▲	▲	▲		▲	
	Omacide® IPBC 30 AQ	IPBC	Aqueous dispersion	4.0 – 10.0	0.5 – 1.0%	▲	▲	▲	▲	▲	▲	▲	▲	▲	
	Omacide® IPBC 100	IPBC	Solid	4.0 – 10.0	0.15 – 0.3%	▲		▲	▲		▲	▲	▲	▲	
	Omacide® IPBC 30	IPBC	Solution in solvent	4.0 – 10.0	0.5 – 1.0%	▲		▲	▲		▲	▲	▲	▲	
	Omacide® IPBC 30 DPG	IPBC	Solution in glycol	4.0 – 10.0	0.5 – 1.0%	▲		▲	▲		▲	▲	▲	▲	
	Omacide® IPBC 40	IPBC	Solution in solvent	4.0 – 10.0	0.375 – 0.75%	▲		▲	▲		▲	▲	▲	▲	
	Isocil® WT	OIT	Solution in glycol	2.0 – 10.0	0.1 – 0.4%	▲	▲		▲			▲			
	Zinc Omadine ZOE®	ZPt	Aqueous dispersion	4.5 – 11.0	0.4 – 0.8%	▲	▲		▲	▲	▲	▲	▲	▲	

*VOC tested at mid point of typical dose level with ASTM D6886-14 method

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