



Product Data Pack

Byotrol Surface Sanitiser (B2020)

Includes Microbiological Data and Chemical Specification

Product specification

Appearance: Clear liquid
 Colour: Colourless to pale straw
 Odour: Characteristic
 pH: 9.00 – 9.50 (20°C)
 S.G.: 0.990 – 1.010 (20°C)

Application areas

Can be used as a terminal disinfectant on food contact surfaces. For all hard surfaces including stainless steel, plastics, tiles, floors, walls, fridges and sanitary ware at 1%.

Directions for use

Ensure surfaces are visibly clean. Dilute to required concentration. Spray evenly onto surface, ensuring all areas are treated. Allow surface to dry.

No need to rinse.

Safety

DANGER



For external use only.
 Avoid contact with eyes. If eye contact occurs, rinse well with cool water.
 Do not use on broken or inflamed skin.
 Keep out of the reach of children.

Packaging

Options	SLC0020/B2020	SLC1000/B2020
Pack size	20 Litre Concentrate	1000 Litre Concentrate
Maximum treatable area	Up to 16,000m ²	Up to 800,000m ²
Dosage	1-1.25% v/v Food Contact Surfaces 2-5% v/v All other areas including drains, floors, refrigerators	

Storage

Keep containers upright and tightly closed. Store in original container in a dry, cool and well-ventilated place, away from heat and direct sunlight. Protect from freezing. Avoid contact with oxidising agents.

Active ingredients

N –(3-aminopropyl)-N-dodecylpropane-1,3-diamine 4.05g per 100g,
 Polyhexamethylene biguanide hydrochloride 0.95g per 100g

MSDS Reference

B2020

Hazard statements

Causes skin irritation. Causes serious eye damage. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.
 Contains polyhexamethylene biguanide.
 May produce an allergic reaction.

Precautionary statements

Avoid release to the environment.
 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 IF ON SKIN: Wash with plenty of water.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a POISON CENTER/ doctor.
 Collect spillage.

Shelf life stability data

2 years under recommended storage conditions.

Established following criteria for accelerated storage test in section 3.4.1.1 of ECHA guidance on the BPR: Volume I. Part A. Chapter III: Requirements for Biocidal Products. Version 1.1 November 2014

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Antimicrobial Activity

Bactericidal activity, Quantitative suspension test (food, industrial, domestic and institutional areas)								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 1276	<i>E. coli</i>		1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276	<i>E. hirae</i>		1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276	<i>P. aeruginosa</i>		1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276	<i>S. aureus</i>		1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276		<i>S. typhimurium</i>	1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276		<i>L. monocytogenes</i>	1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276		<i>L. monocytogenes</i>	1%		5 min, low soil, 4°C	>5log	>5log, 5 min, low soil, 4°C	2200-18
EN 1276		<i>C. jejuni</i>	1%	5 min, low soil		>5log	>5log, 5 min, low soil	TR_375
EN 1276		<i>Y. enterocolitica</i>	1%	5 min, low soil		>5log	>5log, 5 min, low soil	2188-18
EN 1276		<i>E. coli</i> 0157	1%	5 min, low soil		>5log	>5log, 5 min, low soil	2188-18
EN 1276		MRSA	1%	5 min, low soil		>5log	>5log, 5 min, low soil	2188-18
EN 1276	<i>E. coli</i>		1%	5 min, high soil		>5log	>5log, 5 min, high soil	2189-18
EN 1276	<i>E. hirae</i>		1%	5 min, high soil		>5log	>5log, 5 min, high soil	2189-18
EN 1276	<i>P. aeruginosa</i>		1%	5 min, high soil		>5log	>5log, 5 min, high soil	2189-18
EN 1276	<i>S. aureus</i>		1%	5 min, high soil		>5log	>5log, 5 min, high soil	2189-18
EN 1276		<i>S. typhimurium</i>	1%	5 min, high soil		>5log	>5log, 5 min, high soil	2193-18
EN 1276		<i>L. monocytogenes</i>	1%	5 min, high soil		>5log	>5log, 5 min, high soil	2190-18
EN 1276		<i>L. monocytogenes</i>	1%		5 min, high soil, 4°C	>5log	>5 log, 5 min, high soil, 4°C	2201-18
EN 1276		<i>C. jejuni</i>	1%	5 min, high soil		>5log	>5log, 5 min, high soil	2215-18
EN 1276		<i>Y. enterocolitica</i>	1%	5 min, high soil		>5log	>5log, 5 min, high soil	2190-18
EN 1276		<i>E. coli</i> 0157	1%	5 min, high soil		>5log	>5log, 5 min, high soil	2190-18
EN 1276		MRSA	2%	5 min, high soil		>5log	>5log, 5 min, high soil	2189-18

Bactericidal activity, Quantitative surface test (food, industrial, domestic and institutional areas)								
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Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 13697	<i>E. coli</i>		1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_303
EN 13697	<i>E. hirae</i>		1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_303
EN 13697	<i>P. aeruginosa</i>		1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_303
EN 13697	<i>S. aureus</i>		1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_303
EN 13697		<i>S. typhimurium</i>	1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_303
EN 13697		<i>L. monocytogenes</i>	1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_303
EN 13697		<i>L. monocytogenes</i>	1%		5 min, low soil, 4°C	>4log	>4log, 5 min, low soil, 4°C	2197-18
EN 13697		<i>C. jejuni</i>	1%	5 min, low soil		>4log	>4log, 5 min, low soil	2216-18
EN 13697		<i>Y. enterocolitica</i>	1%	5 min, low soil		>4log	>4log, 5 min, low soil	2219-18
EN 13697		<i>E. coli</i> 0157	1%	5 min, low soil		>4log	>4log, 5 min, low soil	2272-18
EN 13697		MRSA	1%	5 min, low soil		>4log	>4log, 5 min, low soil	2217-18
EN 13697	<i>E. coli</i>		1%	5 min, high soil		>4log	>4log, 5 min, high soil	2194-18
EN 13697	<i>E. hirae</i>		1%	5 min, high soil		>4log	>4log, 5 min, high soil	2194-18
EN 13697	<i>P. aeruginosa</i>		1%	5 min, high soil		>4log	>4log, 5 min, high soil	2194-18
EN 13697	<i>S. aureus</i>		2%	5 min, high soil		>4log	>4log, 5 min, high soil	2194-18
EN 13697		<i>S. typhimurium</i>	2%	5 min, high soil		>4log	>4log, 5 min, high soil	2218-18
EN 13697		<i>L. monocytogenes</i>	1%	5 min, high soil		>4log	>4log, 5 min, high soil	2218-18
EN 13697		<i>C. jejuni</i>	1%	5 min, high soil		>4log	>4log, 5 min, high soil	2216-18
EN 13697		<i>Y. enterocolitica</i>	2%	5 min, high soil		>4log	>4log, 5 min, high soil	2218-18
EN 13697		<i>E. coli</i> 0157	1%	5 min, high soil		>4log	>4log, 5 min, high soil	2218-18
EN 13697		MRSA	2%	5 min, high soil		>4log	>4log, 5 min, high soil	2272-18

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Bactericidal activity, Quantitative suspension test, Veterinary area								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 1656	<i>E. hirae</i>		1%		5 min, low soil, 20°C	>4log	>4log 5 min, low soil, 20°C	2185-18
EN 1656	<i>P. aeruginosa</i>		1%		5 min, low soil, 20°C	>4log	>4log 5 min, low soil, 20°C	2185-18
EN 1656	<i>S. aureus</i>		1%		5 min, low soil, 20°C	>4log	>4log 5 min, low soil, 20°C	2185-18
EN 1656	<i>P. vulgaris</i>		1%		5 min, low soil, 20°C	>4log	>4log 5 min, low soil, 20°C	2185-18
EN 1656		<i>E. coli</i>	1%		5 min, low soil, 20°C	>4log	>4log 5 min, low soil, 20°C	2185-18
EN 1656		<i>B. bronchiseptica</i>	1%		5 min, low soil, 20°C	>4log	>4log 5 min, low soil, 20°C	2230-18
EN 1656	<i>E. hirae</i>		3%		5 min, high soil, 20°C	>4log	>4log 5 min, high soil, 20°C	2261-18
EN 1656	<i>P. aeruginosa</i>		2%		5 min, high soil, 20°C	>4log	>4log 5 min, high soil, 20°C	2184-18
EN 1656	<i>S. aureus</i>		2%		5 min, high soil, 20°C	>4log	>4log 5 min, high soil, 20°C	2184-18
EN 1656	<i>P. vulgaris</i>		2%		5 min, high soil, 20°C	>4log	>4log 5 min, high soil, 20°C	2184-18
EN 1656		<i>E. coli</i>	3%		5 min, high soil, 20°C	>4log	>4log 5 min, high soil, 20°C	2261-18
EN 1656		<i>B. bronchiseptica</i>	2%		5 min, high soil, 20°C	>4log	>4log 5 min, high soil, 20°C	2230-18

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Yeasticidal activity, Quantitative suspension test, (food, industrial, domestic and institutional areas)								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 1650	<i>C. albicans</i>		1%		5 min, low soil	>4log	>4log, 5 min, low soil	2198-18
EN 1650		<i>S. cerevisiae</i>	1%		5 min, low soil	>4log	>4log, 5 min, low soil	2262-18
EN 1650		<i>Z. rouxii</i>	1%		5 min, low soil	>4log	>4log, 5 min, low soil	2198-18
EN 1650	<i>C. albicans</i>		1%		5 min, low soil	>4log	>4log, 5 min, low soil	TR_302
EN 1650		<i>S. cerevisiae</i>	1%		5 min, low soil	>4log	>4log, 5 min, low soil	2199-18
EN 1650		<i>Z. rouxii</i>	1%		5 min, low soil	>4log	>4log, 5 min, low soil	2199-18

Yeasticidal activity, Quantitative surface test (food, industrial, domestic and institutional areas)								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 13697	<i>C. albicans</i>		1%		5 min, low soil	>3log	>3log, 5 min, low soil	2219-18
EN 13697	<i>C. albicans</i>		2%		5 min, high soil	>3log	>3log, 5 min, high soil	2251-18

Bactericidal activity, Quantitative surface test, Veterinary area								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 14349	<i>E. hirae</i>		2%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2213-18
EN 14349	<i>P. aeruginosa</i>		1%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2213-18
EN 14349	<i>S. aureus</i>		2%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2213-18
EN 14349	<i>P. vulgaris</i>		1%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2213-18
EN 14349		<i>E. coli</i>	2%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2213-18
EN 14349		<i>B. bronchiseptica</i>	2%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2231-18
EN 14349	<i>E. hirae</i>		4%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2186-18
EN 14349	<i>P. aeruginosa</i>		4%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2186-18
EN 14349	<i>S. aureus</i>		4%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2186-18
EN 14349	<i>P. vulgaris</i>		4%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2273-18
EN 14349		<i>E. coli</i>	4%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2186-18

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Anti-viral activity, Quantitative suspension test								
Test method	Standard test viruses	Additional viruses	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 14476		Influenza A, H1N1	1%	5 min, low soil		>4log	>4log, 5 min, low soil	TR_439
EN 14476		Rotavirus	1%	60 min, low soil		>4log	>4log, 60 min, low soil	TR_441
EN 14476		Feline coronavirus	1%	5 min, low soil		>4logR	>4logR, 5 min, low soil	TR_451

24-hour Residual Antibacterial Activity, PAS 2424								
Test method	Standard test viruses	Additional viruses	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
PAS 2424		<i>L. monocytogenes</i>	1%	5 min, high soil		>3log	>3log, 5 min, low soil	TR_304

Yeasticidal activity, Quantitative suspension test, (veterinary area)								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 1657	<i>C. albicans</i>		1%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2240-18
EN 1657		<i>S. cerevisiae</i>	1%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2263-18
EN 1657	<i>C. albicans</i>		5%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2187-18
EN 1657		<i>S. cerevisiae</i>	4%		5 min, high soil, 20°C	>4log	>4log, 5 min, high soil, 20°C	2263-18

Yeasticidal activity, Quantitative surface test, (veterinary area)								
Test method	Standard test organisms	Additional organisms	Product Dilution in hard water	Standard test conditions	Additional test conditions	Log reduction required	Result	Test reference
EN 16438	<i>C. albicans</i>		4%		5 min, low soil, 20°C	>4log	>4log, 5 min, low soil, 20°C	2386-19