

BioGuard

Technical data sheet



Application

An industrial sanitizer for use in controlling microbial contamination in animal production facilities and farm equipment such as poultry and turkey houses, swine housing and farrowing areas. Barns and large animal buildings and chick processing facilities, cages and transport vehicles, and hatching eggs and for sanitizing industrial surfaces such as floors.

Composition

Material	Proportion
Glutaraldehyde 50%	10.0%
Formaldehyde 35/10	23.0%
Cocobenzyl Dimethyl Ammonium Chloride 50%	12.0%
Inert Ingredients	55.0%

Manufacturing Process

The active ingredients are combined with purified water using a low shear mixer until homogeneous.

Specifications

Specification	Typical value
Appearance	Transparent colourless to pale yellow
pH @ 25°C:	3.0 to 5.0
Solubility in Water, 20°C:	Miscible
Boiling Point:	>100.5°C
Freezing Point:	-<0°C
Specific Gravity, @ 20/20°C:	1.00 – 1.05

Key features

- Broad Spectrum effective against: Bacteria, Yeast, Moulds, Viruses
- No tacky build up
- Effective on a wide variety of construction materials
- Unaffected by hard water
- Noncorrosive to metals that can tolerate exposure to water; avoiding etching pitting or scale formation
- Properly diluted solutions pose no detrimental effects to waste treatment systems.

Materials Compatibility

BioGuard is suitable for use on many surfaces. At the recommended use dilution, it is compatible with all common materials of construction that can tolerate exposure to water.

- Aluminum
- Glass
- Brass
- Glazed Ceramic Tile
- Chrome-Plated Steel
- Latex Rubber
- Copper
- Polyethylene
- Stainless Steel

Environmental Data

Persistence and Degradability

Data for Component: Glutaral; glutaraldehyde; 1,5-pentanedial

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

BioDegredation	Exposure Time	Method	10 Day Windows
83%	28 d	OECD 301A Test	pass
73%	28 d	OECD 306 Test	Not applicable

Data for Component: Formaldehyde

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

BioDegredation	Exposure Time	Method	10 Day Windows
97%	14 d	OECD 301 C Test	Not applicable

Data for Component: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Material is expected to be readily biodegradable.

OECD Biodegradation Tests:

BioDegredation	Exposure Time	Method	10 Day Windows
97%	>10 d	OECD 301D Test	Not applicable

Bioaccumulative potential

Data for Component: Glutaral; glutaraldehyde; 1,5-pentanedial

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient, n-octanol/water (log Pow): -0.333 Measured

Data for Component: Formaldehyde

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient, n-octanol/water (log Pow): 0.35 Measured

Data for Component: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Bioconcentration Factor (BCF): 33.3; Lepomis macrochirus (Bluegill sunfish); Measured

Recommended Application Rates

- Routine disinfection 1:100

Further Information

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