

Poultry disinfectant comparison chart

Disinfectant chemical	Technical notes	Brand	Manufacturer	% of active ingredients
Quaternary ammonia compounds (1/2 oz per gallon use rate)	Low germicidal range Limited residual activity Reduced efficacy in organic matter Low cost Not sporicidal against clostridium Low toxicity Reduced efficacy in soaps, salts Best use: Hatchery (tray wash)	Bio-Quat 20	Neogen	1st Gen: 20% (C14-50%, C12-40%, C16-10%) Alkyl dimethyl benzyl ammonium chloride
		Pi Quat 20		3rd Gen: 20% dimethyl benzyl ammonium chlorides
		Orange Quat Destroyer		5th Gen: 21.7% Twin and Dual Chain blend
Phenols *Triple phenols*	Reasonable germicidal range Not sporicidal Effective in minimum organic matter Some residual activity Strong odor, eye and skin irritation Best use: boot dip, foot pans, aerosol spray	Bio-Phene	Neogen	19.8% Phenol (7.9% o-phenylphenol, 10% o-benzyl-p-chlorophenol, 1.9% p-tert-amyphenol)
		Tektrol	Bio-Tek	26% Phenol (12% o-phenylphenol, 10% o-benzyl-p-chlorophenol, 4% p-tert-amyphenol)
		Steriphene	Spartan	Ethyl alcohol 64.000% Ortho-Benzyl-para-chlorophenol 0.071% Ortho-Phenylphenol 0.051%
Glutaraldehyde quat blends	Wide germicidal activity Sporicidal and fungicidal Can be virucidal	Synergize	Neogen	26% alkyldimethylbenzyl ammonium chloride, 7% glutaraldehyde
		Glutex GQ-1		14% glutaraldehyde, 2.5% alkyldimethylbenzyl ammonium chloride
Glutaraldehyde	Moderate efficacy in organic matter Slight residual, moderate toxicity Best Use: all hatchery and barn applications	Glutex GS-2	Dow Chemical	20% glutaraldehyde plus surfactants
Liquid halogens (Iodines, Chlorines)	Moderate efficacy in organic matter Slight residual, moderate toxicity Best Use: all hatchery and barn applications	Chlorcide	EnviroTech	7.5% Sodium Chlorite
		NeoKlor	Neogen	7.5% Sodium Chlorite
		Anthium Dioxide	ID	8.35% Sodium Chlorite
		Corresan	Neogen	12.5% Sodium Hypochlorite
		Iodis/Iodine Disinfectant		18% iodine complex (1.75% titratable iodine)
Non-halogen oxidizers	Moderate to very wide germicidal range Moderate corrosiveness, mild toxicity Can be sporicidal, fungicidal, virucidal Mostly ineffective in heavy organic loads Use dilutions tends to be unstable Low environmental impact Use(s): disinfect water lines, mister/fogger	Perasan A	EnviroTech	26.5% peroxide + 5.6% peracetic acid
		Peraside	Neogen	26.5% peroxide + 5.6% peracetic acid
		Viroxide Super®		22.41% peroxymonosulfate
		Virkon	Lanxess	21.4% peroxymonosulfate
		Hydrogen Peroxide	Various	32% hydrogen peroxide
		Siloxycide	Neogen	50% silver stabilized hydrogen peroxide
Unique combinations				
Iodine, Propionic, Phosphoric	Synergistic acid and iodine Best Use: on-farm, disinfect and acidify water	Dyne-O-Mite	Neogen	0.42% iodine, propionic acid, phosphoric acid
Quat blend + peroxide	Two part chemistry for biolm removal Use: water line cleaner	FortiSolve	Sterilex	6% quaternary ammonium, 6% hydrogen peroxide
Formaldehyde/ Formalin compounds	Wide germicidal activity, sporicidal Fungicidal, known human carcinogen Use(s): farm, dirty, contract cleanout	Formaldehyde	Various	37% formaldehyde
		Sal CURB	Kemin	37% formaldehyde + propionic acid (feed disinfectant targeting <i>Salmonella sp.</i>)
		DC&R	Neogen	19.2% tris nitro, 2.28% formaldehyde, 3.08% quaternary ammonium chloride
Acids	Drinking water disinfectant	KEMSAN	Kemin	70.5% propionic acid + other acids
Peroxide + acid + soap	Proprietary surface disinfectant Low pH	Intervention	Virox	4.5% Hydrogen peroxide plus acid(s) and surfactant(s)