Swine 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	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-amylphenol)
		Tektrol®	Bio-Tek	26% Phenol (12% o-phenylphenol, 10% o-benzyl-p-chlorophenol, 4% p-tert-amylphenol)
		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	Dow Chemical	14% glutaraldehyde, 2.5% alkyldimethylbenzyl ammonium chloride
Glutaraldehyde	Moderate efficacy in organic matter Slight residual, moderate toxicity ***Best Use:*** all 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 barn applications	Chlorcide	EnviroTech	7.5% Sodium Chlorite
		AquaPrime® NeoKlor	Neogen	7.5% Sodium Chlorite
		Anthium™ Dioxcide	ID	8.35% Sodium Chlorite
		Corresan	Neogen	12.5% Sodium Hypochlorite
		Iodis/Iodine Disinfectant	Neogen	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 tend 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
		Virkon™	Lanxess	21.4% peroxymonosulfate
		Viroxide Super®	Neogen	22.41% Potassium 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 biofilm 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 *Salmonella sp.*)
		DC&R®	Neogen	19.2% tris nitro, 2.28% formaldehyde, 3.08% quaternary ammonium chloride
Acids	Drinking water disinfectant	KEM SAN®	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)