Disinfectant Comparison Chart for Swine

DISINFECTANT COMPARISON CHART - SWINE				
DISINFECTANT CHEMICAL	**TECHNICAL NOTES**	**BRAND**	**MANUFACTURER**	**% 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 1st Gen; 40% powder (C14-60%, C12-5%, C16-30%, C18-5%) Alkyl dimethyl benzyl ammonium chloride
		Pi Quat 20		3rd Gen: 20% dimethyl benzyl ammonium chlorides: 10% - Alkyl dimethylbenzyl ammonium chloride (60%C14, 30%C16, 5%C18, 5%C12) 10% - Alkyl (68%C12, 32%C14) dimethylethylbenzyl ammonium chloride
		Orange Quat Destroyer		5th Gen: 21.7% Twin and Dual Chain blend: 8.68% - Alkyl (60%C14, 25%C12, 15%C16) dimethylbenzyl ammonium chloride 13.0% - Didecyl and/or Octyl decyl and/or Dioctyl dimethyl ammonium chloride 5th Gen: 17.8% diluted version of others
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 e¬fficacy 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 e¬fficacy in organic matter Slight residual, moderate toxicity ***Best Use:*** all barn applications	Chlorcide	EnviroTech	7.5% Sodium Chlorite
		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)

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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
		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	Ultra Kleen	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	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)