

Pure & Clean DISINFECTANTS CHART

	Sodium Hypochlorite 5.25%	Phenols	Quaternary Ammonium Compounds	Hydrogen Peroxide	Ethanol (ethyl alcohol)	lodophors	Pure & Clean Disinfectant & Wound Care - Hypochlorous Acid
Disinfectio n Level	Low/ Intermediate	Low	Low	High	Low/ Intermediate	Low	High
Pre- cleaning required?	Yes	Yes	Yes,	Yes	Yes	Yes	Yes
Shelf Life	Unmixed with water: 3months. Mixed: 24hours. Keep in an airtight container away from light.	1 year in a sealed container if undiluted.	2 years in an airtight container if undiluted.	2 years in an airtight container away from light.	2 years if undiluted. Store in a cool, well- ventilated area.	2 years if undiluted. Once solutions have lost their brown color to become colorless, they are no longer active.	18 months
	Irritant to mucous membranes, eyes and skin. If mixed with ammonia or acidic products can create poisonous chlorine gas.	Carcinogenic. Irritant to mucous membranes, eyes and skin.	Can cause dermatitis. Irritant to mucous membranes. Can trigger asthmatic symptoms.	Irritating to eyes, skin at mucous membranes at 6% concentration.	Inhalation or contact with material may irritate or burn skin and eyes. Vapors may cause dizziness or suffocation.	Non-toxic and non-irritating in normal use. Occasional hypersensitivi ty reactions.	Non-toxic and non- irritating
Controls	Personal protective equipment and increased ventilation.	Personal protective equipment and increased ventilation.	Personal protective equipment and increased ventilation.	Personal protective equipment including goggles and increased ventilation.	Ventilation.	Personal protective equipment if sensitive.	None.
Environ- mental Issues/ Disposal	Toxic to aquatic organisms.	Toxic to all animals including aquatic organisms.		Small amounts of dilute hydrogen peroxide can be flushed down a	None.	lodophors are highly toxic to aquatic life. Waste solutions may	





	Remains persistent in the environment. Subject to disposal restrictions.		sink with a large quantity of water, unless local rules prohibit this. Larger amounts should be treated before disposal.		be discharged into sewers (subject to approval by the appropriate authority), where they will gradually be inactivated by proteins.	
carpets and oth at high concer Must b separa ammon flamma produc require applica where or oral occurs toys). I in the p of orga and by	ye to floor s, metals, s, clothing her fibers her fibers ter strations. be stored tely from nia and able tets. Rinsing be to floor food utensils and in nurseries or crèches. May damage floor finishes and other surfaces. Leaves residue ed in finising	d. Not effective against <i>C.diff</i> icile rotavirus and some gram- negative bacteria. Leaves residue, rinsing required. QUATs are generally inactivated by organic matter, detergents, soaps and	Rinsing required in applications where direct skin or oral contact occurs (children's toys). 7.5% hydrogen peroxide can cause discoloration of black anodized metal finishes and bleaching of fabric. Cosmetic and functional material compatibility concerns with brass, zinc, copper, and nickel/silver plating. Inactivated by organic matter.	and <i>C.</i> <i>difficile.</i> Can swell, harden and bleach rubber and certain plastic tubing and tiles after prolonged and repeated use. Activity limited in presence of organic matter. Highly flammable therefore must be stored in a cool ventilated area. Evaporates rapidly, making extended exposure time difficult to	Activity reduced by high levels of organic matter. Can become contaminated therefore solutions need to be changed regularly. Cannot use other products in conjunction with iodophors. Not recommende d for concrete surfaces. Expensive. Ineffective against some gram- negative bacteria.	18 month shelf life





biofilms and kill spores at high concentrations. Broad spectrum of antimicrobial activity. Does not leave toxic residues, unaffected by water hardness, inexpensive and fast acting.	activity in hard water and in the presence of organic matter and has some residual activity after drying.	does not cause damage to surfaces.	corrosive when diluted, no disposal issues, odor or irritation issues. Only chemical disinfectant able to inactivate <i>C.</i> <i>parvum</i> (at 6% and 7.5%).	Retains similar bactericidal activity in the presence of organic matter.	require exposure monitoring, non-staining and relatively free of toxicity. Retains some biocidal activity in the presence of organic matter.	solution is nontoxic to biologic tissues and non- corrosive to surfaces. Can remove biofilms at higher concentratio ns (>5% [v/v]).
fungicidal, viricidal, tuberculocidal and sporicidal at high concentrations. Kills: <i>M</i> .tuberculosis, HB	2%, viricidal, and tuberculocidal. Not sporicidal. Kills: HIV at 0.5% and Hydrophilic viruses at 5% in under 10 minutes.	and viricidal against lipophilic (enveloped) viruses. Not sporicidal and generally not tuberculocid al or virucidal against hydrophilic (nonenvelop ed) viruses. Kills: <i>E.</i> coli, <i>H.</i> pylori, <i>S.</i> aureus,	minutes at a 1:16 dilution. Kills: <i>E.</i> <i>coli,</i> <i>Streptococcus</i> <i>and</i> <i>Pseudomonas</i> species: 0.6% in 15 minutes, Norovir us at 5000ppm in 3 minutes, MRSA, VRE as a 3%	concentration is 60%–90%. Kills: <i>E. coli</i> 30secs, <i>H.</i> <i>pylori</i> at 80% in 30secs, Rotavir us at 95%, Norovirus at 75% in 10min, SARS at 70% in 1min, <i>Pseudom</i> <i>onas</i> <i>aeruginosa</i>	mycobacterici dal, and virucidal but can require prolonged contact times to kill certain fungi and not sporicidal. Kills: <i>E.</i> <i>coli, S.</i> <i>aureus</i> and <i>M. chelonae</i> at a 1:100 dilution in under 1 minute.	viricidal, tuberculocid al and sporicidal at





atrophaeus at	and P.	tuberculosis at	10sec, <i>M</i> .		albicans,
100ppm in 5	Aeruginosa	7.5% in 10	tuberculosis		Enterococcu
minutes, Candida	in 5 seconds.	minutes,	<i>at</i> 95% in		s faecalis,
and salmonella		poliovirus and	15secs. At 60%:		P.
at 500ppm in		HAV 7.5% in 30	Herpes,		Aeruginosa
30seconds		minutes	vaccinia,		in under 2
and <i>P.</i>		and Cryptosporid	influenza,		minutes in
aeruginosa in		ium.	adenovirus,	1	the absence
under 10			enterovirus,		of organic
minutes.			rhinovirus,		loading.
			rotaviruses,		-
			HBV, HIV,		
			echovirus,		
			astrovirus. At		
			70%:		
			Cryptococcus		
			neoformans,		
			Blastomyces		
			dermatitidis,		
			Coccidioides		
			<i>immitis</i> , and		
			Histoplasma		
			capsulatum in 1-		
			20 minutes.		

