			Disinfectants				
		Alcohols	Chlorinating Agents Oxidizing Agents		ing Agents	Quaternary Ammonium Compounds	
Example	Isopropyl	Alcohol	Bleach, Hypochlorite, Chlorine Dioxide	Hydrogen Peroxide, Accelerated Hydrogen Peroxide, Peracetic Acid (Peroxyacetic Acid)		Diethyl Ammonium Chloride	
Concentration Used	60-95%		100-5000 ppm	0.5% Hydrogen Peroxide, 1-15% Peracetic Acid		0.4-1.6%	
Contact Time		BE SURE TO CHECK INDIVIDUAL LABELS OF PRODUCT FOR CONTACT TIMES					
Mechanism of Action	Precipitat denatures	tes proteins, s lipids	Denatures proteins	Denatures proteins and lipids		Denatures proteins, binds phospholipid of cell membrane	
Advantages	Fast actir non-stain	ng, no residue, iing	Broad spectrum, short contact time, fast acting, inexpensive	Broad spectrum, fast acting, peroxide breaks down to water and oxygen		Stable in storage, non- irritating to skin, effective at high temperatures and high pH (9-10)	
Disadvantages	have long	aporation (may not g enough contact), e, hardens rubber, s gloves	requires frequent	Damaging to some metals, mucous membrane and tissue irritation, limited to surface activity due to poor penetration		Narrow microbicidal activity, removes floor polishes	
Vegetative Bacteria	Yes		Yes	Yes		Yes - Gram Positive, Limited - Gram Negative	
Mycobacteria	Yes		Yes	Yes		Variable	
Enveloped Viruses	Yes		Yes	Yes		Variable	
Spores	No		Variable	Variable		No	
Fungi	Effective		Effective	Variable		Variable	
Efficacy with Organic Matter	Reduced		Rapidly reduced	Variable		No	
Corrosiveness	Rubber, g	gloves	Corrodes Metals	Corrodes Metals		Removes Floor Polishes	

Adapted from Appendix II
USP Chapter <797> (2018
Compounding
Compendium) and The
CDC Handbook: A Guide
to Cleaning and
Disinfecting (by Tim
Sandle) Chart below from
Jim Polarine

