

## CHEMISTRY COMPARISON OVERVIEW

DISINFECTANT	ACCELERATED HYDROGEN PEROXIDE®	BLEACH (5 – 7.25%)	SODIUM CARBONATE	THYMOL	PHENOL & SODIUM PHENATE	QUATS Quaternary Ammonium Compounds	CHLORINE DIOXIDE/ QUATS
<b>SAMPLE TRADE NAMES</b>		Clorox Germicidal Bleach	Concrobium Mold Control	Benefect Botanical Decon 30 Disinfectant, Concrobium Broad Spectrum Disinfectant II	Sporicidin	Fiberlock Shockwave RTU/ Concentrate, Microban	Vital Oxide
<b>EFFICACY</b>							
<b>CLEANING CAPABILITIES</b>	✓ Excellent	✗ Generally weak	✗ None	✗ Generally weak	✗ Generally weak	✗ Detergents may bind to cleaning materials	✗ Generally weak
<b>SANITIZING</b>	✓ 10 seconds	✓ 2 minutes	✗	▬ Varies by product	✗	▬ Varies by product	✓ 1 minute on hard surfaces, up to 60 mins for carpet
<b>FUNGICIDAL</b>	✓ 1 minute	✓ 5-10 minutes	✓ Overnight	✓ 10 minutes	✓ 10 minutes	✓ 10 minutes	✓ 10 minutes
<b>BACTERICIDAL</b>	✓ 1 minute	✓ 5-10 minutes	✗	✓ 10 minutes	✓ 10 minutes	✓ 10 minutes	✓ 10 minutes
<b>VIRUCIDAL</b>	✓ 1 minute	✓ 5-10 minutes	✗	▬ Limited efficacy against non-enveloped viruses	✓ 5 minutes	▬ Limited efficacy against non-enveloped viruses	✓ 5 - 10 minutes
<b>MILDEWCIDAL (Kills Mold)</b>	✓ 4 minutes	✓ 5-10 minutes	✓ Overnight	✗	✓ 10 minutes	▬ Varies by product	✓ 10 minutes
<b>MILDEWSTATIC (Controls Growth of Mold)</b>	✓	✗	✓ Overnight	✓	▬ Not specified	▬ Varies by product	✓
<b>SAFETY</b>							
<b>EYE IRRITATION CONCENTRATES</b>	✓ Avoid the need to handle concentrates with RestorOx's Ready-to-Use format	✗ May cause serious eye damage	▬ N/A	▬ N/A	▬ N/A	✗ May cause serious eye damage	✓ Non-irritating
<b>EYE IRRITATION IN-USE SOLUTIONS</b>	✓ Non-irritating	▬ Varies by product	✓ Non-irritating	▬ Most are non-irritating	✗ Causes eye irritation	▬ Varies by product	✗ Mild eye irritation
<b>SKIN IRRITATION CONCENTRATES</b>	✓ Avoid the need to handle concentrates with RestorOx's Ready-to-Use format	✗ May cause severe skin burns	▬ N/A	▬ N/A	▬ N/A	✗ May cause severe skin burns	✓ Non-irritating
<b>SKIN IRRITATION IN-USE SOLUTIONS</b>	✓ Non-irritating	▬ Varies by product	✓ Non-irritating	▬ Most are non-irritating	✗ Causes skin irritation	▬ Varies by product	✓ Non-irritating
<b>OCCUPATIONAL HEALTH CONCERNS (USE DILUTION)</b>	✓ None	✗ Associated with occupational asthma	✓ None	✓ None	✗ Toxic to organs, suspected to cause genetic defects. Flammable. Store locked up.	✗ Associated with occupational asthma	✓ None
<b>ENVIRONMENTAL PROFILE</b>							
	✓ Biodegradable	✗ May react with chemicals in wastewater	✗ Contains phosphates	▬ No known effects	▬ No known effects	✗ Toxic to aquatic life	✗ May react with chemicals in wastewater
<b>FACTORS AFFECTING EFFECTIVENESS</b>							
	✓ None. RestorOx remains effective in presence of organic matter, hard water, soaps and detergents	✗ Rapidly inactivated by organic matter. Can be inactivated by some surfactants.	✗ No claims against bacteria or viruses	▬ *Some have limited efficacy against non-enveloped viruses	▬ None	✗ Can be inactivated by organic matter, hard water, soaps and detergents	✗ May take 60 minutes for sanitizing carpets

**Note:** The information in this document pertains to active ingredients in general, and may not capture the characteristics of every formulation. Always refer to the product label and SDS for any product-specific information.