

Testing Summary Vital Oxide EPA Registration Number # 82972

1-Nov-09

Bacteria	Use Method	Contact time	Study Conclusion
<i>Pseudomonas Aeruginosa</i> ATCC 15442	AOAC Use-Dilution	10 min.	Hospital Grade Disinfection
<i>Acinetobacter baumannii</i> ATCC 19606	AOAC Use-Dilution	10 min.	Hospital Grade Disinfection
<i>Escherichia Coli</i> ATCC 11229	AOAC Food Contact Sanitization	30 sec	99.999 kill (no rinse required)
<i>Staphylococcus aureus</i> ATCC 6538	AOAC Food Contact Sanitization	30 sec	99.999 kill (no rinse required)
<i>Pseudomonas Aeruginosa</i> ATCC 15442	DIS/TSS-8 Carpet Sanitizer	10 min.	99.9 Carpet Sanitizer
<i>Enterbacter aerogenes</i> ATCC 13048	DIS/TSS-8 Carpet Sanitizer	10 min.	99.9 Carpet Sanitizer
<i>Staphylococcus aures</i> MRSA ATCC 33592	AOAC Use-Dilution	10 min.	Disinfection
<i>Listeria monocytogenes</i> ATCC 15313	AOAC Use-Dilution	10 min.	Disinfection
<i>Escherichia Coli</i> ATCC 11229	AOAC Use-Dilution	10 min.	Disinfection
<i>Legionella Pneumophila</i> ATCC 33153	AOAC Use-Dilution	10 min.	Disinfection
<i>Salmonella choleraesuis</i> ATCC 10708	AOAC Use-Dilution	10 min.	Disinfection
<i>Staphylococcus aureus</i> ATCC 6538	AOAC Use-Dilution	10 min.	Disinfection
Fungi			
<i>Aspergillus Niger</i> ATCC 6275	Hard Surface Mildew Fungistatic	10 min.	>1 week protection
<i>Stachybotrus chartarum</i>	Sporicidal viability	10 min.	no germination of spores
<i>Aspergillus fumigatus</i>	Sporicidal viability	10 min.	no germination of spores
<i>Alternaria alternata</i>	Sporicidal viability	10 min.	no germination of spores
<i>Penicillum sp</i>	Sporicidal viability	10 min.	no germination of spores
<i>Aspergillus Niger</i> ATCC 6275	Fabric Mildew Fungistatic	10 min.	>4 weeks protection
Virus			
<i>Rotavirus</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Hepatitis C Virus</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Hepatitis B Virus</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Norovirus Feline Calicivirus</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Murine Norovirus (MNV-1)</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Swine Influenza (H1N1) Virus</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Respiratory Syncytial Virus</i>	Virucidal Efficacy	5 min.	complete inactivation
<i>Human Immunodeficiency Virus (HIV Type 1)</i>	Virucidal Efficacy	5 min.	complete inactivation
Toxicity Data			
Dermal Sensitization	Buehler Method	NOT a contact sensitizer	GRAS-Generally Regarded as Safe
Dermal Irritation	Limit test	GRAS-Category 4	GRAS-Generally Regarded as Safe
Acute Inhalation Toxicity	Limit test	GRAS-Category 4	LC50 is greater than 2.09mg/l
Acute Dermal Toxicity	Limit test	GRAS-Category 4	LD50 is greater than 5000mg/kg
Accute Oral Toxicity	Limit test	GRAS-Category 4	LD50 is greater than 5000mg/kg
Ocular Irritation	Limit test Max. Mean Score 15.7	Category 3	Mildly irritating, cleared within 72 hrs