

# TECHNICAL BULLETIN

**Bulletin No.:** TB5018  
**Subject:** BioSpray D2 and  
 Zep FS Amine Z Sanitizer Product Comparison

This information is based on data gathered from but not limited to the product's EPA registered label documents, independent lab tests available to the public, MSDS sheets, distributor and/or marketing associate's Web sites, other public marketing materials and/or registrations for the products and is believed to be reliable and credible, however 1 Priority Biocidal, LLC accepts no liability for the accuracy of the data from these third-party sources. If available, definitions are per those set forth by Office of Prevention, Pesticides and Toxic Substances (OPPTS) 810.2000 Overview, Definitions, and General Considerations:

	Zep FS Amine Z	BioSpray D2™
<b>EPA Registration Number</b>	10324-117	73232-1-86168
<b>Dilution, Mixing and Preparation Required</b>	Yes	No
<b>Dwell Time for Sanitizing Non-Food Contact Surfaces</b>	3 minutes	<b>60 seconds</b>
<b>Dwell Time for Sanitizing Food Contact Surfaces</b>	60 seconds	60 seconds
<b>Dwell Time for Disinfecting</b>	10 minutes	<b>5 minutes</b>
<b>Antimicrobial EPA Registered</b> An agent that destroys or inhibits the growth or reproduction of bacteria, fungi, protozoa or viruses that are pathogenic.	Yes	Yes
<b>Disinfectant EPA Registered</b> A substance, or mixture of substances, intended to destroy or irreversibly inactivate bacteria, fungi, or viruses on surfaces or inanimate objects (FIFRA § 4(i)(4)(C)(iii)).	Yes <i>Only with exact dilution</i>	Yes <b>Ready-to-Use</b>
<b>Food Contact Sanitizer EPA Registered</b> A sanitizer with ingredients cleared under 40 CFR 180.940 that, at a minimum, reduces the level of Staphylococcus aureus and Escherichia coli by 99.999% on a food contact surface within one minute without a potable water rinse.	Yes <i>Only with exact dilution</i>	Yes <b>Ready-to-Use</b>
<b>Fungicide</b> A substance, or mixture of substances, intended to destroy fungi (including yeasts) and/or fungal spores.	Yes <i>Only with exact dilution</i>	Yes* <b>Ready-to-Use</b>
<b>Sanitizer EPA Registered</b> A substance, or mixture of substances, intended to reduce the number of microorganisms on inanimate surfaces, in water or air (FIFRA § 4(i)(4)(C)(i)).	Yes	Yes
<b>Tuberculocide EPA Registered</b> A substance or mixture of substances that destroys or irreversibly inactivates tubercle bacilli (e.g. Mycobacterium) in the inanimate environment.	No	<b>Yes</b> <b>Ready-to-Use</b>
<b>Virucide EPA Registered</b> A substance or mixture of substances that destroys or irreversibly inactivates viruses in the inanimate environment.	Yes <i>Only with exact dilution</i>	Yes <b>Ready-to-Use</b>
<b>Registered on EPA's Antimicrobial Products List (E) as Effective Against: Tuberculosis, Human HIV-1 and Hepatitis B Virus</b>	No	<b>Yes</b>

(Continued)

Zep FS Amine Z

BioSpray D2™

Registered on EPA's Antimicrobial Products List (G) as Effective Against: Norovirus (Norwalk Virus)	No	Yes
Registered on EPA's Products List (H) as Effective Against: Methicillin Resistant Staphylococcus aureus (MRSA) and Vancomycin Resistant Enterococcus faecium (VRE)	Yes <i>At Disinfection level</i>	Yes <b>Ready-to-Use</b>
<b>Safe for Water-Sensitive Equipment</b> per EPA-registered label	No	<b>Yes</b>
<b>Rub</b> required to <b>activate</b> per EPA-registered label	Yes	<b>No</b>
<b>Wipe</b> required to <b>remove product</b> per EPA-registered label	No	No
<b>Rinse</b> required for <b>Food Contact Surfaces</b> per EPA-registered label	Yes <i>At Disinfection level</i>	<b>No</b>
<b>Corrosive</b> - causes irreversible eye damage and skin burns (concentrate)	Yes	<b>No</b>
<b>Disinfectant-resistant pathogens</b> potential if required dilution not met	Yes	<b>N/A</b>
<b>Eliminates Waste Water – Water Conservation</b>	No	<b>Yes</b>

*\*EPA submission level validation testing completed and application to modify label to include fungicidal claim is in internal processing.*