

TECHNICAL BULLETIN

Sample Name: Triad II Germicidal Cleaner and Deodorant
EPA #: 6836-73-4822
Product Code/Size: 4335 - 64 oz. size
 3961 - 5 gallon BIB

Subject: Efficacy Data Summaries

Effective Against Gram Negative and Gram Positive Bacteria

Bactericidal against the following gram negative and gram positive pathogens according to AOAC Use-Dilution test (current edition) modified in the presence of 5% organic soil (blood serum).

| <u>Organism</u> | <u>ATCC#⁽¹⁾</u> | <u>Dilution</u> | <u># of Carriers</u> | <u>Results⁽²⁾</u> |
|--------------------------------|----------------------------|-----------------|----------------------|------------------------------|
| <i>Pseudomonas aeruginosa</i> | 15442 | 2 oz/gal | 60 | 0/60 |
| | | | 60 | 0/60 |
| | | | 60 | 0/60 |
| | | | 40 | 0/40 |
| <i>Pseudomonas cepacia</i> | 17765 | 2 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Pseudomonas cepacia</i> | 25416 | 2 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Pseudomonas cepacia</i> | 25608 | 2 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Staphylococcus aureus</i> | 6538 | 1 oz/gal | 60 | 0/60 |
| | | | 60 | 0/60 |
| | | | 60 | 0/60 |
| | | | 40 | 0/40 |
| <i>Salmonella choleraesuis</i> | 10708 | 1 oz/gal | 60 | 0/60 |
| | | | 60 | 0/60 |
| | | | 60 | 0/60 |
| | | | 40 | 0/40 |
| <i>Serratia marcescens</i> | clinical isolate | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |

(1) American Type Culture Collection

(2) Number of failures per carrier. 0 = no failures

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| <u>Organism</u> | <u>ATCC#⁽¹⁾</u> | <u>Dilution</u> | <u># of Carriers</u> | <u>Results⁽²⁾</u> |
|------------------------------------|----------------------------|-----------------|----------------------|------------------------------|
| <i>Escherichia coli</i> | 11229 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Klebsiella pneumoniae</i> | 4352 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Enterobacter aerogenes</i> | 13048 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Salmonella schottmuelleri</i> | 10719 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Streptococcus faecalis</i> | 11700 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Shigella dysenteriae</i> | 9380 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |
| <i>Brevibacterium ammoniagenes</i> | 6871 | 1 oz/gal | 10 | 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |

Effective against Fungi

Fungicidal against Trichophyton mentagrophytes (athlete's foot fungus) according to the AOAC Fungicidal test modified in the presence of 5% organic soil (blood serum).

| <u>Organism</u> | <u>ATCC#</u> | <u>Dilution</u> | <u>Test No.</u> | <u>Results ⁽²⁾</u> | | |
|------------------------------------|--------------|-----------------|-----------------|-------------------------------|----------------|-----------------------------|
| | | | | <u>5 min.</u> | <u>10 min.</u> | <u>15 min⁽³⁾</u> |
| <i>Trichophyton mentagrophytes</i> | 9533 | 1oz/gal | 1 | 0 | 0 | 0 |
| | | | 2 | 0 | 0 | 0 |
| | | | 3 | 0 | 0 | 0 |
| | | | 4 | 0 | 0 | 0 |

(2) 0 = no growth

+ = growth

(3) Contact times

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Effective against Viruses

Virucidal against Influenza A/Brazil, Vaccinia, Herpes simplex type 1, and HIV-1 according to the Virucidal Qualification Test modified in the presence of 5% organic soil (blood serum).

| <u>Organism</u> | <u>Dilution</u> | <u>Number of Surfaces Tested</u> | <u>Log₁₀ Reduction</u> | <u>Results % Reduction</u> ⁽⁴⁾ |
|-----------------------|-----------------|----------------------------------|-----------------------------------|---|
| Influenza A/Brazil | 1oz/gal | 4 | 10 ^{-5.3} | >99.9 |
| Vaccinia | 1oz/gal | 8 | 10 ^{-5.0} | >99.9 |
| Herpes Simplex Type 1 | 1oz/gal | 8 | 10 ^{-5.0} | >99.9 |
| HIV-1 | 1oz/gal | 4 | 10 ^{-3.0} | >99.9 |

Effective against Mildew

Inhibits the growth of mold and mildew according to EPA - TSD 6-201 Mildewstats on hard surfaces modified in the presence of 5% organic soil (blood serum).

Surface: Ceramic Glazed Tile

| <u>Organism</u> | <u>ATCC#</u> | <u>Dilution</u> | <u>Number of Tiles Tested</u> | <u>Results</u> ⁽⁵⁾ |
|-------------------|--------------|-----------------|-------------------------------|-------------------------------|
| Aspergillus niger | 6275 | 1oz/gal | | 10 0/10 |
| | | | 10 | 0/10 |
| | | | 10 | 0/10 |

Effective Sanitizer

Effective sanitizer on non-food contact surfaces according to EPA - DIS.5 for inanimate, non-food contact surfaces modified in the presence of 300 ppm hard water (as CaCO₃) and 5% organic soil (blood serum).

Surface: Glass and Tile

| <u>Organism</u> | <u>ATCC#</u> | <u>Dilution</u> | <u># of Carriers</u> | <u>Results % Reduction (30 seconds)</u> ⁽⁶⁾ |
|-----------------------|--------------|-----------------|----------------------|--|
| Klebsiella pneumoniae | 4352 | 150 ppm | 12 | >99.9 |
| Staphylococcus aureus | 6538 | 150 ppm | 12 | >99.9 |

(4) % Reduction over control sample.

(5) Number of failures per tiles tested. 0 = No failures

(6) % Reduction over control sample over an elapsed time of 30 seconds.