# THE NEW HE 4001 ANTIMICROBIAL

Approved as antimicrobial active ingredient under EPA and FDA regulations to protect articles EPA Reg # 83019-6

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**Superior technology** binds to surfaces, destroys microbes on contact by physically rupturing cell membranes

- Provides long-lasting antimicrobial protection
- Does not allow microbes to adapt to become resistant
- Conditions surfaces for thorough disinfection and sanitization

THE ONLY EPA

REGISTERED

ORGANOSILANE

ANTIMICROBIAL THAT IS

- ✓ Methanol Free
- Food Contact Allowed
- Durable Protection

Gel



**Protect** surfaces from colonization of odor and stain causing microorganisms

- Efficacy verified by independent labs according to ASTM E2149, JIS Z 2801, and ISO 22196 standards
- Clinical testing in hospitals showed that a single application helps keep high touch surfaces hygienically clean for 5 weeks when incorporated into standard cleaning protocol



**Compelling safety** profile demonstrated by acute toxicity, biocompatibility, HRIPT, and mutagenicity studies

- Water-based, no residual methanol
- Non-toxic / non-irritating
- Non-leaching



Easy to apply by spraying, wiping, soaking, or dipping

- Apply to clean surfaces and allow to dry
- Re-apply once per month on high touch surfaces
- Compatible with all common surfaces and cleaning agents except anionic detergents

Gelest, Inc. 215-547-1015 www.gelest.com tech@gelest.com 11 E. Steel Road, Morrisville, PA 19067

A Group Company of CHEMICAL

## **BIOSAFE® HE 4001 Antimicrobial**

### A silane quaternary ammonium salt

- Product Code: HE4001
- Active ingredient: 3-(trihydroxysilyl)propyldimethyloctadecyl ammonium chloride
- Active ingredient concentration: 0.75%
- CAS NO: 199111-50-7
- EPA Registration Number: 83019-5
- Typical use level: 0.25 0.5 wt% of active relative to the substrate being treated
- Available in 200kg and 1,000kg packaging

### **Other BIOSAFE Antimicrobial Products**

- HM 4100 Antimicrobial: 84% silane quaternary ammonium salt, powder
- HM 4072 Antimicrobial: 72% silane quaternary ammonium salt in methanol
- HM 4005 Antimicrobial: 5% silane quaternary ammonium salt in water
- HM 4001 Antimicrobial: 0.75% silane quaternary ammonium salt in water
- HE 4005 Antimicrobial: methanol free, 5% silane quaternary ammonium salt in water

#### Disclaimer

Antimicrobials preserve treated articles by preventing the growth of stain and odor causing bacteria, fungi, mold, and mildew. They do not protect public health.

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