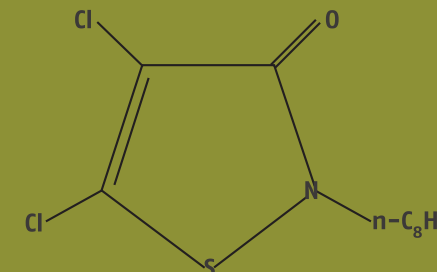
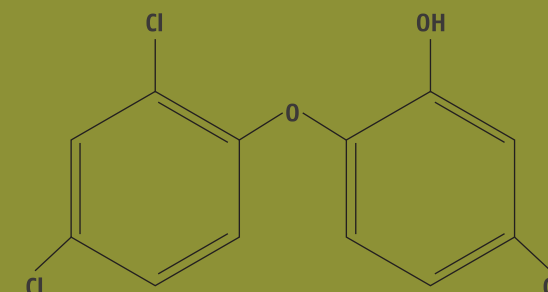


	Organo Clay Silver Based Antimicrobial	Other Organic Antimicrobials (OIT, DCOIT, Triclosan, Zinc Omadine, CIT)
<b>Mode of action</b>	Releases ionic species that react with cell DNA and disrupt life process in the cell. Multi site	Releases bischlorinated phenol (PBC) for consumption or cellular absorption, causing lethal mutation in the cells. One-site specific which usually lead to antimicrobial resistance
<b>Colorability / Aging</b>	Good & Transparent available	Poor to Good. Causes darkening
<b>Matrix</b>	Physical blend	Physical blend
<b>Durability</b>	Extended	Limited
<b>Migration</b>	Controlled	Extensive problems related to Migration
<b>Cost</b>	Effective compared to any other silver-based antimicrobial technology in the market.	Moderate
<b>Application Active Ingredient %</b>	0,5-3%	0-3%
<b>Adaptative Organisms. Resistance</b>	Does not promote development of resistance	Documented adaptation
<b>Food Contact Approval*</b>	Yes	No
<b>Processing and handling safety</b>	Harmful if inhaled, moderate eye irritation, abrasive and reactive	Harmful if absorbed through skin; moderate eye irritation; avoid contact with skin, eyes, or clothing; do not breathe dust
<b>Polymers Compatibility</b>	Compatible with most polymers	Very limited
<b>Typical Applications</b>	Coatings & Paints Durable goods and thermoplastics FDA Compliance	Disposable Low cost items Paints: problems in terms of colorability



4,5-dichloro-2-n-octyl-4-isothiazolin-3-one (DCOIT)  
CAS Reg. №64359-81-5 EINECS: 2648438  
Vapour pressure (mm Hg, 25°C)  
7,4 x 10<sup>-6</sup>



**TRICLOSAN**  
5-chloro-2-(2,4-dichlorophenoxy)phenol

**Other comments regarding current concerns on ORGANICS**

Resistance concerns on Organic biocides; NOT in Ag based Health concerns.  
Allergy development being assessed  
Environment problems in water ecosystems  
Endocrine disruption problems  
Probable Carcinogen  
Ag based antimicrobials are already fully assessed as safe.

**\*Food Contact Approval**

Please, check with Area Manager for further information