

# QUALITY PROTECTS.



## BIOCIDES PORTFOLIO FOR HI & I

Next to our broad classical biocide portfolio with formulations based on proven and well-known actives such as **BIT**, **CMIT/MIT** and **Bronopol**, LANXESS also offers two unique active ingredients for PT 6 – **DBDCB** and **DGH**.

### Dibromodicyanobutane (DBDCB)

- Broad spectrum biocidal active with long term efficacy
- Various DBDCB combinations available under PT 6
- No H317 limit within dosage range

### Dodecylguanidine Hydrochloride (DGH)

- Especially suitable for softeners and other formulations based on cationic and non-ionic surfactants
- Broad pH application range (4-12)
- Chemically stable
- No formaldehyde, no AOX
- No H317 limit





On top, we offer **Phenoxyethanol** as a mild preservative.

### Phenoxyethanol

- Well balanced activity against a broad range of microorganisms
- Ideal combination partner for other active ingredients
- Broad pH range (<12) → can be used in a wide variety of formulation types
- Excellent solubility properties → can be readily incorporated into a variety of formulations
- No H317 limit

Depending on the product to be protected from bacteria and fungi, we recommend the following formulations.

**Table 1: Recommended biocide formulations by application**

Application	Product	Description
 <b>Softeners</b>	N-2000 Antimicrobial	<ul style="list-style-type: none"> <li>▪ DGH solution in glycol</li> <li>▪ Broad spectrum efficacy and long-term efficacy</li> <li>▪ Not a sensitizer</li> <li>▪ Good compatibility with cationic systems such as fabric softeners</li> </ul>
 <b>All-purpose cleaners</b>	Preventol® DB 25	<ul style="list-style-type: none"> <li>▪ DBDCB + BIT dispersion</li> <li>▪ Broad spectrum efficacy</li> <li>▪ Ecolabel possible</li> <li>▪ VOC free</li> <li>▪ No H317 limit within dosage range</li> </ul>
 <b>Dishwashing liquids</b>	Preventol® DP 18	<ul style="list-style-type: none"> <li>▪ DBDCB + Bronopol dispersion</li> <li>▪ Broad spectrum efficacy and long-term efficacy</li> <li>▪ VOC free</li> <li>▪ Within recommended dosage range no sensitizer label</li> </ul>
 <b>Laundry detergents</b>	Preventol® PHE 100	<ul style="list-style-type: none"> <li>▪ Phenoxyethanol 100%</li> <li>▪ Broad spectrum efficacy</li> <li>▪ Excellent stability</li> <li>▪ Not a sensitizer</li> <li>▪ Ecolabel possible</li> </ul>

**For a complete overview of our portfolio, also including BIT, Bronopol, CMIT/MIT, OPP formulations, please contact us.**

## Contact

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**Use biocides safely. Always read the label and product information before use.**