

Product Properties

Microbiological Profile

Germaben™ II is a broad spectrum liquid preservative. It inhibits the growth of Gram-negative, Gram positive bacteria, yeast and molds, and troublesome house organisms. In general no additional preservatives are needed to be added to the final formulation, reducing the total amount of preservatives necessary for proper preservation.

Representative Minimum Inhibitory Concentration (MIC) is shown in the table below. MIC values were determined by serial dilution in TSB as the lowest active ingredient concentration that inhibited visible growth after an overnight incubation.

Organism	ATCC	MIC(ppm)
<i>Pseudomonas aeruginosa</i>	9027	300
<i>Escherichia coli</i>	8739	1200
<i>Burkholderia cepacia</i>	25416	1200
<i>Staphylococcus aureus</i>	6538	600
<i>Aspergillus niger</i>	16404	2500
<i>Candida albicans</i>	10231	>5000

For the determination of the optimum dosage we recommend a preservation test, as the efficacy of this preservative is highly influenced by the product matrix. The staff of Ashland's microbiological laboratories will be pleased to give customers the appropriate support.

Technical Data

Appearance: Pale to light yellow, viscous liquid
 Odour: Characteristically mild
 Solubility (g/100 g solvent): water 1g; ethanol < 0.1g; ethanol 50% miscible; methanol <0.1g; isopropanol < 0.1g; propylene glycol miscible; butylenes glycol 4.5g; glycerine miscible; HCl (10%) 2.0g; NaOH (10%) 22.5g.

Labelling

For information regarding labelling of products and the Risk and Safety phrases or Hazard and Precautionary Statements of Germaben II preservative please seek specific advice from Ashland or refer to the separate Safety Data Sheet (SDS).

INCI-Nomenclature

78491-02-8 Diazolidinyl Urea
 99-76-3 Methylparaben
 94-13-3 Propylparaben
 57-55-6 Propylene Glycol

Regulatory requirements governing the use, registration, and approval of preservatives around the world are continually changing and evolving.

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