

Product Information

PREVENTOL® RI 80/RI 50

PREVENTOL® RI 80/RI 50**Uses**

For the formulation of disinfectants or disinfecting cleaning agents for the medical, veterinary and cosmetic sectors, the food processing industry, agriculture and households. For water treatment (algae prevention in cooling water and swimming pools) and for the elimination of fungi, algae and lichens (substrate pre-treatment agent). Lanxess has not been granted a specific approval for the product under agricultural and pharmaceutical legislation so where the intended fields of application require approval, this must be obtained by the customer himself.

Chemical and physical data

Composition:	liquid formulation of alkyl benzyl dimethyl ammonium chloride (benzalkonium chloride) Preventol® RI 80 approx. 80 % active ingredient Preventol® RI 50 approx. 50 % active ingredient
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Preventol® RI 80**Specification**

The specification parameters can be found in the currently valid product specification.

Characteristic data*

Density (20 °C):	approx. 0.98 g/cm ³
Vapour pressure (50 °C):	approx. 54 mbar
Solidification point:	approx. 6 °C
Boiling point:	approx. 100 °C
Flash point:	> 100 °C (EN ISO 2719)
Ignition temperature:	approx. 345 °C (DIN 51794)
Solubility (20 °C):	miscible in any ratio with water, alkalis, lower alcohols and ketones
Stability range:	pH approx. 1 - 12

*Characteristic data provide further information about the product and are not subject to constant monitoring. They are therefore not binding.

PREVENTOL® RI 80/RI 50**Preventol® RI 50****Specification**

The specification parameters can be found in the currently valid product specification.

Characteristic data*

Density (20 °C):	approx. 0.99 g/cm ³
Vapour pressure (50 °C):	approx. 113 mbar
Solidification point:	- 4 °C
Boiling point:	approx. 100 °C
Flash point:	> 100 °C (EN ISO 2719)
Ignition temperature:	approx. 365 °C (DIN 51794)
Solubility (20 °C):	miscible in any ratio with water, alkalis, lower alcohols and ketones
Stability range:	pH approx. 1 - 12

*Characteristic data provide further information about the product and are not subject to constant monitoring. They are therefore not binding.

Storage

If correctly stored and kept in the original sealed package, the products have a shelf life of 1 year. This product is corrosive. We recommend that this product is stored between 30 - 40 °C.

PREVENTOL® RI 80/RI 50**Applications**

Preventol® RI 80 and RI 50 have a broad spectrum of activity covering mould fungi, algae and lichens along with slime forming organisms, bacteria and yeasts. They are ideal active ingredients for disinfectants for use in households and in the food processing industry. Preventol® RI 80 and RI 50 are odourless and are miscible in any ratio with water and lower alcohols. (See also special brochure on Preventol® RI 80 / RI 50 for disinfectants).

Diluted solutions of Preventol® RI 80 or Preventol® RI 50 are therefore ideal for eliminating fungi, algae and lichens from finished coatings, plaster and stone and concrete surfaces. Since Preventol® RI 80 and Preventol® RI 50 greatly reduce the surface tension of water, good wetting and penetration are guaranteed when using substrate pre-treatment agents based on these products.

A mould-infested substrate must also be pre-treated with a penetrating fungicidal agent (Preventol® RI 80 / RI 50) even when the coating applied afterwards is itself fungicidal. To ensure that this coating-bonds effectively (no flaking), it is advisable to wash with water after a solution containing Preventol® R has been applied or not to apply a coat to the treated surfaces until they have dried (after approx. 24 hours) pre-tests are recommended.

Spectrum of activity

Minimum inhibitory concentrations (mg/l) of Preventol® RI 50

Bacteria (gram positive)

Bacillus cereus (var. mycoides) BB 0053	< 10
Bacillus cereus BB 0043	< 10
Bacillus subtilis ATCC 6633	< 10
Bacillus pumilus BB 0023	300
Bacillus anthracis BB 033	< 10
Streptococcus faecalis ATCC 8043	< 10
Streptococcus epidermidis BB 0813	< 10
Streptococcus epidermidis BB 0223	< 10
Staphylococcus aureus ATCC 6538P	< 10
Micrococcus luteus ATCC 9341	< 10

PREVENTOL® RI 80/RI 50**Bacteria (gram negative)**

Pseudomonas aeruginosa ATCC 14502	600
Pseudomonas maltophilia BB 0103	80
Serratia marcescens BB 0123	150
Salmonella (group B) BB 0143	< 10
Escherichia coli ATCC 11105	150
Escherichia coli ISM 68/114	300
Proteus vulgaris ATCC 9484	< 10
Klebsiella aerogenes BB 0093	300
Acinetobacter anitratus BB 0163	40

Mycetes

Candida albicans ATCC 10231	< 10
Aspergillus niger	80
Saccharomyces carlsbergensis ATCC 9080	< 10

Suggested additions

(relative to the ready-to-use dilution)

for disinfection, e.g. in the food processing industry

Preventol® RI 80: 0.03 - 0.13 %

Preventol® RI 50: 0.04 - 0.20 %

for substrate treatment (in water or alcohols)

Preventol® RI 80: 1.0 - 2.0 %

Preventol® RI 50: 1.5 - 3.0 %

for algae prevention in cooling water and swimming pools

Preventol® RI 80: 2.5 - 12.5 ppm

Preventol® RI 50: 4 - 20 ppm

PREVENTOL® RI 80/RI 50

Registration / Approval / Recommendation

Up-to-date information on the registration status of our products can be obtained from:

LANXESS Deutschland GmbH
Business Unit Material Protection
Regulatory Affairs
51369 Leverkusen / Germany
Fax: (+49 214) 30-7 23 39

Precautions

Preventol® RI 80 / RI 50 are clear, viscous liquids. Contact of the skin with the product and the inhalation of vapours should be avoided. The precautions generally recommended for handling chemicals should be observed, e. g. wearing of protective clothing, safety goggles and protective gloves. If the product comes into contact with skin, the affected area should be washed off immediately with plenty of water and soap; splashes in the eyes should be rinsed out immediately with plenty of water. If irritation persists, medical attention should be obtained. Contaminated or soaking clothing should be changed at once.

The current safety data sheet should be observed. This contains further information on labelling, transport and storage as well as information on handling, product safety, toxicity and ecology.

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

Labelling

This product information must be used in conjunction with section 15 of the currently valid safety data sheet for the product which indicates labeling according to the German Hazardous Substances Regulation and the corresponding EU Directive.