

Product Information

PREVENTOL® D 7

PREVENTOL® D 7

Uses

For the preservation of aqueous coatings, polymer dispersions, filler suspensions, solutions and dispersions of adhesives and thickeners, concrete additives, oil emulsions, polishes etc. For the preservation of surfactants, cleaners and disinfectants.

Chemical and physical data

Composition:	aqueous, formaldehyde-free formulation of various isothiazolinones
Description:	clear, yellow to green, almost odourless liquid

Specification*

Assay of isothiazolinones (HPLC) :	min. 1.5 %
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*Specification values are subject to constant monitoring. Only data given in the current edition of the "Specification" are binding.

Characteristic data**

Density (20 °C):	approx. 1.02 g/cm ³
Vapour pressure (20 °C): Vapour pressure (50 °C):	approx. 23 mbar approx. 121 mbar
Solidification point:	approx. -1 °C
Boiling point:	approx. 100 °C
Flash point:	> 100 °C (DIN 51755)
Solubility:	miscible with water and lower alcohols
pH-value (1 % in water):	approx. 6
Stability range:	pH approx. 2.5 - 9.0

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

PREVENTOL® D 7

Storage

If correctly stored and kept in the original sealed package at room temperature the shelf life is 1 year. The product should be protected from heat (temperature should not exceed 40 °C) and from frost.

Applications

With its broad spectrum of activity, good solubility in water and low acute toxicity, Preventol D 7 is a versatile preservative which is easy to use.

Preventol D 7's spectrum of activity covers bacteria, including formaldehyde-resistant species, fungi, yeast and algae.

Preventol D 7 can be incorporated at any stage of the production process but is best added to the feedwater first. If higher temperatures (> 40 °C) or pH (> 9) values are likely to occur during the manufacturing process, the product should be added at the end of the process, however. In this case take care to homogeneously distribute the preservative within the product to be protected. Because of its low viscosity, in the most cases Preventol D 7 can be used undiluted.

The product can also be unproblematic pre-dissolved in water, alcohols or alcohol/water mixtures. The use of Preventol D 7 in the preservation of aqueous formulations does not generally cause any undesirable side-effects. In contrast to preservatives containing active ingredients which split off formaldehyde, Preventol D 7 is highly suitable for the preservation of products which contain protein (e. g. casein).

It is advisable to carry out compatibility tests before Preventol D 7 is used in new products or applications.

PREVENTOL® D 7

Suggested additions

in % (calculated on total formulation)

Examples:	
Polymer dispersions	0.05 – 0.2
Emulsion paints	0.1 – 0.25
Adhesive dispersions	0.05 – 0.2
Plasters and mortars	0.05 – 0.2
Oil- and alkyd-containing emulsion paints	0.15 – 0.2
Dyestuff pastes	0.1 – 0.25
Filler dispersions, pigment slurries	0.05 – 0.15
Thickener stock solutions	0.1 – 0.2
Glues (starch, dextrin and cellulose derivatives)	0.1 – 0.2
Glues (casein)	0.1 – 0.3
Concrete additives	0.1 – 0.3
Detergents	0.05 – 0.15

Registration / Approval / Recommendation

EC:

Recommendations XIV and XXXVI of the Plastics Commission of the German Federal Health Office (BgVV) approve the use of these active ingredients to protect plastic dispersions against putrefaction and as a slimicide in the manufacture of paper and cardboard for food packaging.

Switzerland:

The active ingredient combination in Preventol D 7 has received the approval of the Toxins Department of the Federal Health Office in Berne. It carries the registration number BAG T 80651, toxin class 5S.

USA:

The constituents of Preventol D 7 are approved by the Food and Drug Administration (FDA).

Canada:

All ingredients are listed in CEPA / DSL.

PREVENTOL® D 7

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

LANXESS Deutschland GmbH
Business Unit Material Protection
51369 Leverkusen / Germany
Fax: (+49 214) 30-6 29 95

Precautions

Preventol D 7 is a clear, lowviscosity solution. Skin contact and inhalation of vapour should be avoided. The precautions generally recommended for handling of chemicals have to be observed, e. g. wearing of safety goggles, protective gloves and protective clothing. If the product comes into contact with the skin, the affected area should be washed immediately with large amounts of soap and plenty of water; splashes in the eyes should be rinsed out immediately with plenty of water. If irritation persists, medical attention should be obtained. Contaminated clothing should be changed immediately.

TLV: 0.05 mg/m³ for the mixture 5-chloro-2-methylisothiazolinone/2-methylisothiazolinone.

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

The product Preventol D 7 is classified as corrosive (C).

Hazard description and R-phrases:

R 34: Causes burns.

R 43: May cause sensitization by skin contact.

R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.