



Product Information

PREVENTOL[®] D 7 LT

In-can preservative based on monovalently stabilised isothiazolinones





PREVENTOL[®] D 7 LT

Uses

For the preservation of aqueous industrial products such as polymer dispersions, aqueous coatings and filler suspensions. Especially suitable for coagulation-sensitive products, as it is free from bivalent salts.

Chemical and physical data

Composition:	liquid formulation of approx. 1.5 % isothiazolinones
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Specification

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

Characteristic data*

Density (20 °C):	approx. 1.02 g/cm ³
Vapour pressure (20 °C): Vapour pressure (50 °C):	approx. 23 mbar approx. 113 mbar
Solidification point:	approx. -2 °C
Boiling point:	approx. 99 °C
Flash point:	> 100 °C (DIN 22719)
Solubility:	miscible with water and lower alcohols
pH:	2 - 4
Stability range:	pH 2.5 - 9.0

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

Storage

If the product is correctly stored in cool conditions (not above 40 °C) and kept in the original sealed package, the shelf life is 1 year.



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Application

With its broad spectrum of activity, good solubility in water and generally good compatibility, Preventol[®] D 7 LT is a versatile preservative which is easy to use.

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

Preventol[®] D 7 LT can be incorporated at any stage of the production process but is best pre added to the feedwater. If higher temperatures (> 40 °C) or pH values (> 9) are likely to occur during the manufacturing process, the product should be added at the end of the process. In this case care should be taken to distribute the preservative homogeneously within the product to be protected to ensure an even effect. Because of its low viscosity, Preventol[®] D 7 LT can be used undiluted or with added water.

The use of Preventol[®] D 7 LT in the preservation of aqueous formulations does not generally cause any undesirable side-effects. Even sensitive polymer dispersions, which tend to coagulate when multivalent metal salts are added, can be easily preserved with the monovalently stabilised Preventol[®] D 7 LT.

Before Preventol[®] D 7 LT is used in new products or applications, it is advisable to carry out compatibility tests and check its microbiological effectiveness beforehand.

Suggested additions in % (calculated on total formulation)

Examples:	
Polymer dispersions	0.05 – 0.20
Emulsion paints	0.10 – 0.25
Plaster and mortars	0.05 – 0.20
Filler suspensions, pigment slurries	0.05 – 0.15
Thickener stock solution	0.10 – 0.20
Glues based on starch, dextrin, cellulose derivatives	0.10 – 0.20
Glues based on casein	0.10 – 0.30
Adhesive dispersions	0.05 – 0.20
Detergents	0.05 – 0.15



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Registration / Approval / Recommendation

Recommendations XIV and XXXVI of the Plastics Commission of the German Federal Institute for Consumer Health and Veterinary Medicine (BgVV) approve the use of the active ingredients in Preventol[®] D 7 LT to protect plastic dispersions against putrefaction and as processing agents in the manufacture of paper and cardboard for food packaging.

In Switzerland Preventol[®] D 7 LT has received the approval of the Toxins Department of the Federal Health Office in Berne. It carries the registration number BAG T 80651 in toxin list 3, toxin class 5 S.

In the USA Preventol[®] D 7 LT's active ingredients are listed in various approvals of the Food and Drug Administration (FDA); in Canada all ingredients are listed in CEPA.

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[®] 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-methylisethiazolinone/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.



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Labelling

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