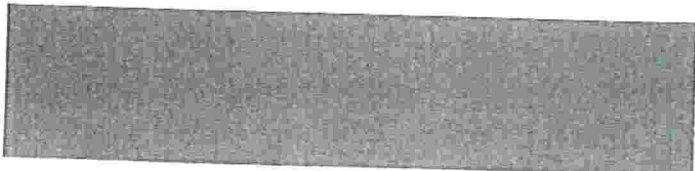




Product Information

PREVENTOL[®] IT 14





PREVENTOL® IT 14

Uses

Concentrate for the preservation of aqueous systems such as water circuits, metal-working emulsions, polymer dispersions, aqueous coatings, filler suspensions, solutions and dispersions of thickeners and glues, oil emulsions, concrete additives, polishes etc.

Raw material for the manufacture of biocidal formulations.

Chemical and physical data

Composition: aqueous formulation of approx. 14 % isothiazolinones (CMIT/MIT)

Specification

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

Characteristic data*

Density (20 °C):	approx. 1.3 g/cm ³
Solidification point:	approx. -33 °C
Boiling point:	approx. 100 °C
Solubility:	miscible with water and lower alcohols
pH:	2.0 - 2.8

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

Storage

Stored properly in cool conditions (not above 40 °C) and in sealed original containers the product has a shelf life of 1 year.



PREVENTOL® IT 14

Application

With its broad spectrum of activity, good solubility in water and generally good compatibility, Preventol® IT 14 is a versatile preservative which is easy to use.

Preventol® IT 14's spectrum of activity covers bacteria, including formaldehyde-resistant species, fungi, yeast and algae.

Preventol® IT 14 can be incorporated at any stage of the production process but is best added already 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. However, 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® IT 14 can be used undiluted or with water added.

It can also be pre-dissolved in alcohols or alcohol/water mixtures. The use of Preventol® IT 14 in the preservation of aqueous formulations does not generally cause any undesirable side-effects. In contrast to preservatives which contain active ingredients that release formaldehyde, Preventol® IT 14 is ideal for preserving products containing proteins (e.g. casein).

Before Preventol® IT 14 is used in new products or applications, it is advisable to carry out compatibility trials and test its microbiological effectiveness.

Suggested additions in % (calculated on total formulation)

The usual addition in the preservation of aqueous systems lies in the range 0.01 - 0.02 %.

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® IT 14 to protect plastic dispersions against putrefaction and as processing agents in the manufacture of paper and cardboard for food packaging.

In the USA Preventol® IT 14'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



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Precautions

When handling Preventol® IT 14 the precautions generally recommended for handling chemicals must 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

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.