ROCIMA 564 Biocide

In-can preservation of paints, binders and related products

Blue Angel Compliant

Description

ROCIMA 564 Biocide is an aqueous, VOC-free preparation of active ingredients for the in-can preservation of technical products. It is formulated as a stable, pumpable and flowable dispersion to achieve a high compatibility in most binder and paint systems.

ROCIMA 564 is a formulation that combines among other actives methylisothiazolinone and chloromethyle/ methylisothiazolinone in an inverse ratio compared to the established formulations. Thus, it provides an initial rapid and powerful performance boost with a long term broad spectrum activity.

ROCIMA 564 is based on active ingredients that comply with European and North American food contact regulations, e.g. coatings and adhesives, provided that the customary dosage rates are not exceeded.

ROCIMA 564 complies with the requirements of the German Blue Angel Ecolabel for interior wall paints (RAL UZ-102).

Composition and Technical Data

These properties are typical but do not constitute specifications.

Composition: Preparation of chloromethyl/methylisothiazolinone (3:1), methylisothiazolinone and benzisothiazolinone.		
Appearance	grey-greenish, flowable dispersion	
Density 20°C	1.03 ± 0.05 g/ml	ISO 2811-1
Particle size	max. 30 µm	ISO 1524
Viscosity η 20°C	75 ± 15 KU	ASTM D-562
Flash point	> 100°C o.c. Cleveland	ISO 2592

Miscibility / Solubility

Fully miscible in water. Practically insoluble in organic solvents.

Temperature: For optimum efficacy it is generally recommended to add ROCIMA 564 below 40°C. Short-term exposure to 60°C will have minimal impact but an exposure over a prolonged time to elevated temperatures must be avoided.

pH range: ROCIMA 564 is applicable and efficacious from pH 4 to 11.

Compatibility

ROCIMA 564 shows very good compatibility, even with critical systems. No coagulation, no changes in viscosity, colour, gloss, film formation or other critical parameters of the finished products have been observed. However, it is generally advisable to check compatibility prior to any special application.

Application and Activity

ROCIMA 564 contains a combination of halogenated and non-halogenated isothiazolinones. The special ratio of these active substances results in both a rapid activity and long-term protection of the finished product without exceeding existing labelling limits established for preservatives.

ROCIMA 564 has a broad spectrum of activity against micro-organisms such as bacteria, yeast and mould fungi, allowing a robust preservation of a wide range of products such as paints, adhesives, latex emulsions, tackifiers, mineral slurries, pigment dispersions and other technical water-based products. In addition, the unique concept of ROCIMA 564 minimizes the risk of development of resistant micro-organisms.

ROCIMA 564 has proven to be effective in many cases where more simple combinations have not been satisfactory due to their insufficient activity or stability.

ROCIMA 564 is suitable to preserve products which are free of VOC and has virtually no contribution to AOX.

ROCIMA 564 complies with several food contact legislations of the European Union and of the Food and Drug Administration (FDA) of the USA. For specific information please ask your local Rohm and Haas contact or liaise with our Product Integrity Department.

Dosage

Typical dose levels of ROCIMA 564 are between 0.10 - 0.15% in the finished product.

ROCIMA 564 can be added at a maximum dose of 0.15% without any labelling limitation (according to annex I of Dangerous Substance Directive 67/548/EEC, classification as dangerous preparation if concentration of CMI/MI, 3:1 ratio, is equal to or greater than 15 ppm).

The amount of a preservative to be added is dependent on the susceptibility of the raw materials against microbial spoilage and their level of contamination. The amount of preservative used can be minimised by observing hygienic conditions in the storage of raw materials, during production, filling processes and subsequent warehousing.

Our Biological and Technical Laboratories are able to give you professional advice whenever necessary.

Handling

Please refer to the safety data sheet of this product for precise handling instructions.

The processing and use of industrial chemicals require adequate technical and professional knowledge.

In general, avoid eye and skin contact, wear safety goggles, gloves and protective clothing. In case of eye or skin contact despite precautionary measures, wash immediately and thoroughly with plenty of warm water and obtain medical attention.

The legal requirements prevailing in your country, especially on working hygiene and in the avoidance of accidents, must be observed.

Storage

ROCIMA 564 should be stored in tightly closed original containers and preferably at room temperature. If stored below 0°C solidification can take place which can be reversed by simple warming up to room temperature.

After a homogeneous mixing ROCIMA 564 can be used without any loss in effectiveness.

Protect from light and heat.
