

ROCIMA™ 623 Biocide

In-can preservative for technical products

General Description

ROCIMA 623 biocide is a liquid combination of active substances to preserve aqueous products such as dispersion paints, emulsion paints, glues, cutting oils, thickening pastes and binder dispersions.

ROCIMA 623 is active both in the aqueous phase as well as in the vapour phase above it.

ROCIMA 623 allows a cost-effective control of bacteria and fungi in closed systems.

Composition and Technical Data

These values do not constitute specifications.

Composition: preparation of chlormethyl-/methylisothiazolone and formaldehyde

Appearance	colourless to bluish, clear liquid	
Color (Gardner)	max. 2	ISO 4630
Density d_{4}^{20}	1.029 ± 0.01 g/ml	ISO 2811-3
Refractive index n_{D}^{20}	1.343 ± 0.005	ASTM D 1218-02
Viscosity η 20°C	1-5 mPa.s	ISO 3219
pH-value, as is	3-6	AAM 9301
Flash point	> 100°C o.c. Cleveland	ISO 2592

Typical Properties

Miscibility/Solubility

Forms clear solutions in all proportions with water, low alcohols, glycols, and glycol ethers.

Compatibility

ROCIMA 623 has no tendency to form colour complexes with heavy metal salts. It is not compatible with substances sensitive to aldehydes.

Stability

Temperature: up to 40°C (short period to 60°C)

pH range: 4 to 9

Application and Activity

ROCIMA 623 was especially developed as an in-can preservative for use in dispersed or emulsified aqueous systems. It can be added at any phase of production. It is, however, recommended to add the necessary amount of ROCIMA 623 at the very beginning of the manufacturing process, where the conditions during production allow this.

ROCIMA 623 contains a combination of active substances, which provide a long term protection in the aqueous phase and an additional protection in the vapour phase.

ROCIMA 623 is effective against bacteria (gram-positive and gram-negative) under aerobic or anaerobic conditions. It is also effective against yeasts and moulds commonly encountered in the described fields of application. The number of technical products in need of preservation is steadily increasing. Since it is impossible

for a biocide supplier to check compatibility with all materials used in individual formulations, preliminary tests to check compatibility of ROCIMA 623 with the specific product are always necessary.

ROCIMA 623 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

The necessary dosage rate of ROCIMA 623 depends upon the degree of contamination of the raw materials and upon the susceptibility of the product to be preserved.

Degree of contamination and susceptibility can fluctuate seasonally. A periodical determination of germ counts helps considerably in choosing the optimum dosage rate.

Therefore, the concentration ranges listed below should be used for guidelines only:

Binders	0.05 - 0.15%
Dispersion paints, glues solutions	0.1 - 0.5%

In the case of special application, please consult either our Technical Service or our Biological Laboratories for assistance.

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 623 should be stored in closed original containers as cool as possible but not below 0°C.

ROCIMA 623 solidifies below 0°C. After warming up to room temperature the product becomes liquid again and after stirring, it can be used without any loss in effectiveness.

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

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