ROCIMA[™] 523 Biocide

Preservative for Aqueous Binder Dispersions and Other Technical Products

Description

ROCIMA 523 Biocide is a liquid, universally usable combination of active ingredients for the in-can preservation of technical products.

The combined effect of the optimised ratios of the chemically different active principles of ROCIMA 523 provide excellent bacterial and fungal control and prevent the growth of resistant strains of micro-organisms.

ROCIMA 523 contains active ingredients which, when used according to the dosage recommendations, are approved by BfR for the application field and meet the regulations of FDA.

ROCIMA 523 may be employed in binders for final products to be used in indirect food contact.

Composition and Technical Data

Composition: Preparation of chloromethyl-/methylisothiazolone and bronopol

Typical Properties

These properties are typical but do not constitute specifications.

Appearance	colorless to yellowish, clear liquid	
Odor	weak, typical	
Density d $\frac{20}{4}$	1.092 ± 0.01 g/ml	ISO 2811-3
Refractive Index n $\frac{20}{D}$	1.360 ± 0.005	ASTM D 1218-02
Viscosity η 20°C	max. 20 mPa.s	ISO 3219
pH (0.2% in tap water)	7.5 ± 1	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, and glycol ethers.

Compatibility

ROCIMA 523 is compatible with most common binders.

It is generally advisable to check compatibility prior to any application.

Stability

Temperature:up to 40°C (short period to 60°C),pH range:4 to 9.

Application and Activity

ROCIMA 523 has been developed especially for the preservation of aqueous dispersion and emulsion binders. However, it can also be used in technical final products, after a biological testing has been carried out.

ROCIMA 523 contains neither cationic nor phenolic substances. Therefore, it is particularly suited for use in products not compatible with these substances.

ROCIMA 523 has a broad spectrum of activity. It is effective against gram-positive and gram-negative, aerobic and anaerobic bacteria together with various species of moulds and yeasts.

ROCIMA 523 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.

The number of technical products being preserved with ROCIMA 523 is increasing steadily and it is not always possible to predict its suitability. The optimum use should be established by preliminary experiments. In critical cases, predilution with water is often helpful.

Dosage

For storage preservation of dispersions and dispersion paints only small amounts of ROCIMA 523 are required because of its good effectiveness.

As a general guideline 0.1% on the total formula is sufficient.

The dosage rates of an in-can preservative depend upon the degree of contamination and susceptibility of the raw materials of the formulation.

The following concentrations are recommended as a guideline only:

Paints	0.05 - 0.30%
Pastes, thickener solutions, glues, adhesives	0.10 - 0.33%
Plasters, binders	0.05 - 0.25%

Our Biological and Application Laboratories are at your disposal for the solution of microbiological problems.

As a further preventive measure against bacterial infections we advise to pay full attention to the cleanliness of storage and production facilities.

For regular cleaning and disinfection of manufacturing facilities, tubings, storage containers, etc., we recommend the use of a 0.5% solution in water of ROCIMA 101.

Handling

Please refer to the Material 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 523 Biocide should be stored in tightly closed original containers in a cool place above +5°C.

At 0°C and lower temperatures crystallisation can take place. If crystallisation has been started, depending on the storage time below $+5^{\circ}$ C, a not easily redissolvable crystalline deposit will be formed. After warming up (max. 50° C) under stirring, if all crystals are dissolved, the product can be used without any loss in effectiveness.

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

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