

ROCIMA™ GT Biocide Industrial In-Can Preservative

Description

ROCIMA GT Biocide is a liquid in-can preservative for universal use in technical products.

The combined effect of several complementary chemically different actives of ROCIMA GT provides excellent bacterial and fungal control and minimizes the risk of the development of resistant strains of micro-organisms.

Composition and Technical Data

Composition

Mixture of chloromethyl-/methylisothiazolone, quaternary ammonium compound, formaldehyde and formaldehyde donor.

Typical Properties

These properties are typical but do not constitute specifications.

| | | |
|-------------------------|---------------------------------------|----------------|
| Appearance | Colourless to yellowish, clear liquid | |
| Colour Gardner | Max. 3 | ISO 4630 |
| Odour | Characteristic | |
| Density 20°C | 1.0255 ± 0.01g/ml | ISO 2811-3 |
| Refractive index n 20/D | 1.376 ± 0.01 | ASTM D 1218-02 |
| Viscosity 20°C | <12 mPa.s | ISO 2555 |
| pH, as it is | 5.0 ± 2 | IN 7463 ACM |
| Flash point | >100°C o.c. Cleveland | ISO 2592 |

Typical Properties

Miscibility/Solubility

Clearly miscible at any proportions with water, low alcohols and glycolethers.

Compatibility

When using pure ROCIMA GT, brass, copper, iron, aluminium, tinplate and stainless steel type DIN 1.4301 (AISI 304 or SUS 304) should be avoided.

ROCIMA GT is compatible in concentrated form with glass, high pressure-polyethylene, polypropylene and stainless steel type DIN 1.4401 (AISI 316 or SUS 316) and stainless steel type DIN 1.4571 (AISI 316 Ti or SUS 316 Ti).

In general ROCIMA GT does not affect viscosity, odour and colour of finished products. No corrosion of production and storage containers has to be expected.

ROCIMA GT is not always compatible with anionic systems.

Stability

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

pH Range: 3 to 9

Application and Activity

ROCIMA GT is used as a preservative in water-based technical products and intermediates, such as dispersion, emulsion paints, plasters, binders, adhesives, glues, wax or oil emulsions, paper and textile coating agents.

ROCIMA GT is liquid and therefore no predispersion is necessary. ROCIMA GT being completely water soluble is therefore easy to disperse in the final product by simple stirring. ROCIMA GT may be stirred in during any phase of the production. It is, however, recommended to add the preservative at the beginning of the manufacturing process.

ROCIMA GT is also a suitable disinfectant to clean the production plants.

ROCIMA GT is fully effective against a broad spectrum of bacteria including gram-negative and gram-positive types under aerobic and anaerobic conditions. It is also very effective against the moulds and yeasts commonly encountered in the described field of application.

The great variety of systems, raw materials and different manufacturing conditions make it generally advisable to check compatibility before starting to use any new ingredient. With casein containing systems, compatibility should be checked in any case.

Dosage

Excellent, long-term preservation in the above application fields can be achieved with low addition rates of ROCIMA GT Biocide. As a general guideline a dosage between 0.1 and 0.2% based on the total weight of the finished formulation is sufficient.

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

Please consult your Rohm and Haas representative for assistance.

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% aqueous solution in water of ROCIMA 101.

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 GT should be stored in tightly-sealed original containers in a cool place, but not below -7°C. At storage temperatures below -7°C solidification can take place, but without affecting the biological activity. After simple warming up at room temperature, the product becomes liquid again.

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

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