

ROCIMA™ 640 Biocide **Broad Spectrum**

Description

ROCIMA 640 biocide is a broad spectrum microbicide for the preservation of industrial water-based products against the attack of microorganisms.

ROCIMA 640 is specifically recommended for the preservation of polymer emulsions, paints and coatings, adhesives, and printing inks.

Composition and Technical Data

These properties are typical but do not constitute specifications.

Composition: 20% solution of 1,2-Benzisothiazolin-3-one in dipropylene glycol and water.

Appearance	Clear amber liquid
Viscosity	250 mPa.s at 25°C
Density	1.14 g/ml at 20°C
pH (10% in water)	12.5 at 25°C
Boiling point	~100°C
Solubility	Miscible with water at any ratio
Temperature stability	Stable up to 50°C (for short periods up to 100°C depending on matrix)
pH stability	Stable at pH 4 - 12
Redox stability	Incompatible with certain oxidizing and reducing agents*

*Our technical staff is fully prepared to provide you further recommendations in this field

Product Benefits

- Broad spectrum activity in high pH systems, controlling bacteria, fungi and yeasts.
- Stable in the presence of amines.
- Non specific mode of action, resulting in reduced microbial resistance potential.
- Ease of handling due to its liquid form and good compatibility in most aqueous compositions.
- Excellent performance with co-biocides like CMI/MI, bronopol or formaldehyde releasers, which allow performance enhancements and cost reduction.
- The active ingredient in ROCIMA 640 is today the most widely accepted in various European Ecolabel programs applying to coatings and lattices (i.e. German Blue Angel, Danish Malcode, European ecolabel).
- The active ingredient is non-volatile and has a comparatively high heat stability which allows the incorporation in fluids which are still hot.
- High purity active ingredient, made evident by its clear light colour.

Appearance of ROCIMA 640 Compared with Equivalent Industry Grade



Industry standard

ROCIMA™ 640

Antimicrobial Properties

Used at recommended dose levels, ROCIMA 640 biocide is effective against the following microorganisms:

Bacteria

Pseudomonas aeruginosa
 Pseudomonas fluorescens
 Pseudomonas putida
 Escherichia coli
 Klebsiella pneumoniae
 Enterobacter cloacae
 Citrobacter freundii
 Proteus vulgaris
 Staphylococcus aureus

Mould

Fusarium solani
 Aspergillus niger
 Alternaria alternata
 Aureobasidium pullulans
 Chaetomium globosum

Yeast

Candida albicans
 Rhodotorula rubra

Directions for Use

Below are some general dosing recommendations, however, it is recommended to do specific testing on the end product to determine optimal dose levels.

Product	% ROCIMA 640 (based on total weight of product)
Polymer Emulsions: Polymer emulsions based on styrene acrylic, acrylic, butadiene, PVA and styrene for various applications.	0,05 - 0,15
Emulsions paints and coatings	0,05 - 0,25
Water based adhesives	0,05 - 0,25
Printing Inks and fountain solutions	0,05 - 0,15
Plasters	0,05 - 0,25

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.

Storage

ROCIMA 640 should be stored in well sealed original containers and protected from heat and from direct sunlight. Storage below -2°C may lead to turbidity and solidification. The product becomes liquid again by simply warming up without any loss of effectiveness, if mixed homogeneously.

Shelf Life

ROCIMA 640 in original containers under the conditions stated above will have a shelf life of 24 months.

Biocidal Products Directive Compliance

ROCIMA 640 is a biocidal product intended for use in accordance with Product Type 6 (In-Can preservation) and Product Type 13 (Metalworking-fluid preservatives) of the Biocidal Products Directive 98/8/EC (BPD).

Caution

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

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