

rokonsal™ SE-2 preservative

preservative for the cosmetics industry

product description

Rokonsal SE-2 preservative is a blend of bronopol, ethylparaben and myrtrimonium bromide in an aqueous glycolic solution. The formula is delivered in an easy to use liquid form. It is an effective fast acting and broad-spectrum preservative. It can be used at very low levels (0.1 – 0.3% by wt) and effective up to pH 7.

suggested applications

Rinse-off-Cosmetics	Rokonsal SE-2 preservative has proven to be an effective preserving system for rinse-off-products like shampoos, shower-gels, foam-baths and more.
Care-Products	Rokonsal SE-2 preservative is well suited for high-quality care-cosmetics like creams, emulsions, lotions and gels. Rokonsal SE-2 preservative can be used in O/W-emulsions as well as in W/O-emulsions.
Wet- Wipes	Rokonsal SE-2 preservative is also suited for use in wet wipe systems, due to its efficient anti-fungal properties and low dosage.

dosage and processing

Rokonsal SE-2 preservative has recommended use levels of 0.1%-0.3% by wt. pH-tolerance is given for acidic and neutral environments. Hydrolysis will take place at pH-values above 7. It may be added to formulations at any stage of the manufacturing process below 40°C. For emulsions, add Rokonsal SE-2 preservative after the emulsion is formed and during cool down below 40°C. In aqueous products with low emulsifier content, adequate mixing is recommended to achieve a uniform dispersal of the active ingredient.

Due to the presence of bronopol, the use of Rokonsal SE-2 preservative is not allowed when nitrosable agents like diethanolamides or triethanolamine-salts are present. These substances can contain diethanolamine as an impurity, that may form nitrosamine (NDELA).

For the determination of the optimum dosage we recommend a preservative challenge test, as the efficacy of this preservative is highly influenced by the product matrix. Ashland's microbiological laboratory team is available to provide customers with the appropriate support required.

product properties

microbiological profile

The combination of antimicrobial actives in Rokonsal SE-2 results in a broad spectrum of activity against gram-positive and gram-negative bacteria, with good performance against yeast and fungi. This generally results in lower use levels and provides a fast kill.

technical data

Appearance :	colorless to yellow solution
Odor :	characteristic
pH-Value :	3 - 7
Density :	1.05 - 1.07 g/ml
Solubility :	When diluted with water, turbid solutions will occur. In the range of the recommended use-concentrations, Rokonsal™ SE-2 preservative will not lead to dissipation-problems.

stability

Rokonsal SE-2 preservative can be worked into final products at temperatures between 10°C and 40°C. pH-tolerance is given for acidic and neutral environment. Hydrolysis will take place at pH-values above 7. Reducing agents, strong acids, oxidizing agents, alkalis and nucleophiles will lead to decomposition of the active ingredient. Elevated temperatures will accelerate decomposition.

storage

Storage is recommended in tightly closed original-containers at temperatures between 5°C and 25°C.

INCI-nomenclature

13429-07-7, 34590-94-8	PPG-2-Methyl Ether
120-47-8	Ethylparaben
52-51-7	2-Bromo-2-Nitropropane-1,3-Diol
1119-97-7	Myrtrimonium Bromide

Details regarding handling, toxicity and labelling are available in the Safety Data Sheet (SDS).

Regulatory requirements governing the use, registration, and approval of preservatives around the world are continually changing and evolving.

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