

KORALONE™ B-205 Preservative for Household and Industrial & Institutional Products

Description

KORALONE B-205 preservative is a versatile liquid combination of active substances recommended for use in preservation of household products. The optimized ratio between 1,2-benzisothiazolinon-3-one and 2-n-octyl-4-isothiazolinon-3-one chemistry allows to use KORALONE B-205 at unusually low concentrations. KORALONE B-205 contains no added formaldehyde, nitrites, nitrosamines or cationic, phenolic or corrosive substances.

KORALONE B-205 Formulation and Properties

Chemical Composition

Total Active Ingredients	5.2%
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1,2-benzisothiazolin-3-one (BIT)	
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2-n-octyl-4-isothiazolin-3-one (NOI)	
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Insert Ingredients

Glycol	
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Water	
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Physical Properties

Appearance	clear, colorless to yellowish liquid
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Flash Point	>100°C
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Density $d^{20/4}$	0.997 g/l ^{+/-0.01}
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Refractive Index $n^{20/D}$	1.429 ^{+/-0.009}
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Viscosity η 20°C	<20mPa.s
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Solubility in water	Miscible
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pH	5-6
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Benefits Of KORALONE B-205 Preservative

- The special ratio of these active substances results in both a rapid activity and a long term protection of the finished product against a broad spectrum of micro-organisms, including bacteria, yeast and mould fungi.
- Applicable and efficacious for a wide range of pH 4 to 12.
- Stable up to 50°C (short period at 80°C).
- Readily incorporated in household product due to its liquid form.
- Forms clear solution in all proportions with water, low alcohols and glycols.
- Compatible and effective with anionic, ester quaternary surfactants, non ionic surfactants and commonly used household product ingredients.

Suggested Applications

- Laundry products, such as:
 - liquid laundry detergents
 - fabric softeners
 - pre-spotters

- **Liquid detergents**, such as:
 - hand dishwashing detergents
 - hand cleaners
 - hand soaps
- **Cleaners and polishes**, such as:
 - all purpose cleaners
 - floor and furniture polishes/waxes
 - automotive washes, polishes and waxes
- **Raw materials and surfactants** used in the Household and Industrial & Institutional industry.

Recommended Use Levels

For effective preservation of domestic products it is recommended that KORALONE B-205 preservative should be dosed in the range of 0.2% to 0.4% as supplied. The typical use concentration of KORALONE B-205 is around 0.30% and allows the long term protection of the finished product without any additional labeling requirements.

Since the components of household formulations can vary considerably and may have an impact on the effect of preservatives, we advise each manufacturer to confirm the efficacy and stability of KORALONE B-205 in use. Preservatives are not designed to overcome lack in plant or manufacturing hygiene but to avoid contamination in microbiologically clean products. Any microbial contamination of the product, raw materials, process water, storage installations or packaging will reduce preservative efficacy and should be avoided. However, occasionally, the degree of unavoidable contamination as well as conditions for microbiological growth exhibit seasonal fluctuation, so that a periodical determination of germs counts can assist in choosing the optimum dosage rate. In the case of special applications, please consult either our Technical or our Biological Laboratories for assistance.

Safe Handling Of KORALONE B-205

Please refer to the safety data sheet (MSDS) 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.

Shelf Life

KORALONE B-205 in original containers under appropriate storage conditions will have a shelf life of 60 months.

Storage

KORALONE B-205 should be stored in closed original containers at ambient temperature protected from direct heat.

Regulatory Information

For regulatory information about KORALONE B-205 preservative, please ask your local Rohm and Haas contact or liaise with our Product Integrity Department. KORALONE B-205 is formulated with BPD (Biocidal Products Directive) notified active ingredients.

Material Safety Data Sheets

Rohm and Haas Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Under the principles of Product Stewardship and some government regulations (for example, the US OSHA Hazard Communication Standard), workers must have access to and understand MSDS all hazardous substances to which they are exposed. Thus, it is important that you provide appropriate training and information to your employees and make sure they have available to them MSDS any hazardous products in the workplace.

Upon initial shipment of all products (including samples), Rohm and Haas Company sends the appropriate MSDS to the recipient. If you do not have access to one of these MSDS, please contact your local Rohm and Haas representative for a copy. Updated MSDS are sent upon revision to all customers of record. Rohm and Haas Company is a member of the American Chemistry Council (ACC) and is committed to the ACC's Responsible Care Program.

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

KORALONE is a trademark of Rohm and Haas Company, or of its subsidiaries or affiliates. The Company's policy is to register its trademarks, where products designated thereby are marketed by the Company, its subsidiaries or affiliates.

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use of our products are beyond our control.

We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

Suggestions for uses of our products or the inclusion of descriptive material from patents and the citation of specific patents in this publication should not be understood as recommending the use of our products in violation of any patent or as permission or license to use any patents of the Rohm and Haas Company.

For further details, please contact your local Account Manager or local Business Representative.



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