

## ROZONE™ 2000 Biocide

Liquid Fungicide and Algicide for Water or Solvent-Based Coatings

### Description

ROZONE 2000 biocide is a liquid mildewcide for the protection of paint films and coatings. It is a high-performance preservative against the growth of surface moulds which also displays excellent activity against algae and bacteria.

ROZONE 2000 has a very low water solubility. It has a high resistance to leaching even on weathered surfaces and provides therefore a long-term protection.

ROZONE 2000 has been developed to fulfill many eco-toxicological demands. It is not persistent in the environment but can be dissipated by chemical or biological means.

ROZONE 2000 is a biocidal product intended for use in accordance with Product Type 7 (Film Preservation) of the Biocidal Products Directive.

### Composition and Technical Data

**Composition:** liquid preparation of dichloroethylisothiazolone

#### Typical Properties

These properties are typical but do not constitute specifications.

Appearance	clear, greenish liquid	
Color (Gardner)	max. 6	ISO 4630
Density $d_{\frac{20}{4}}$	$1.10 \pm 0.01$ g/ml	ISO 2811-3
Refractive index $n_{\frac{20}{D}}$	$1.519 \pm 0.005$	ASTM D 1218-02
Viscosity $\eta$ 20°C	$60 \pm 20$ mPa.s	ISO 3219

### Miscibility/Solubility

Clearly miscible at any proportion with organic solvents such as alcohols, ketones, aromatics. Miscible with water with the formation of a milky emulsion.

### Application and Activity

ROZONE 2000 is an effective microbicide for the use in paints and coatings which are applied on wood or on mineral surfaces.

ROZONE 2000 shows a very broad and balanced spectrum of activity against mould and algae in the field of application. ROZONE 2000 is therefore suitable to be used as the sole protective agent. It can also be combined with other fungicides or algicides to improve their spectrum of activity.

If, due to faulty construction, the surfaces to be coated are permanently damp, remedial work must be performed to correct this (e.g. with ROCIMA™ 103), before a successful application of microbicides can be achieved.

ROZONE 2000 is a protective agent for coatings. To avoid microbial contamination of the water based products in the container during storage we would advise to use an in-can preservative as well (e.g. ROCIMA 564, ROCIMA 551 and ROCIMA 518).

The active ingredients of ROZONE 2000 comply with several regulations 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.

ROZONE 2000 Biocide is liquid and consequently easy to incorporate into the end product. A uniform and homogeneous distribution can be obtained by simple but thorough stirring.

ROZONE 2000 can be added at any phase of production provided thorough mixing is guaranteed. Should the manufacturing process involve heating of the product, it is advisable to add ROZONE 2000 after cooling down at the end of the process.

The great variety of systems and manufacturing conditions make it generally advisable to check compatibility before starting to use any new ingredient.

Should you encounter microbial problems or problems concerning applications, please contact your Rohm and Haas Representative.

### **Dosage**

As a general guideline the usage of 0.2% up to 0.55% in relation to the total formula is recommended.

The optimum dosage of microbicides depends largely upon the susceptibility of the coating to fungal and algal growth, the exposure to weathering, the thickness of the coating, the amount of dirt to be expected and the potential of the local environment to contaminate the surface.

It is recommended that the proposed dosages of ROZONE 2000 biocide are checked in laboratory tests and if possible with practical external experiments as well, this applies to both the compatibility in the finished product and to the expected level of protection.

### **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**

ROZONE 2000 should be stored in tightly sealed original containers, preferably at room temperature. If stored below 0°C solidification can take place which can be reversed by simple warming up to room temperature.

After a homogeneous mixing ROZONE 2000 can be used without any loss in effectiveness.

Protect from light and heat.

---

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

ROZONE 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 determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Suggestions for use 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 patents or as permission or license to use any patent of the Rohm and Haas Company.



©Rohm and Haas, 2007. All rights reserved.

BIO.ROZONE™ 2000.PDS.E.04/2007